Long-Term Temperature Monitoring Program 2000-2001, Newfoundland Region

D.R. Senciall, P. Stead and E.B. Colbourne

Science, Oceans and Environment Branch
Department of Fisheries and Oceans
P. O. Box 5667
St. John's, Newfoundland
Canada, A1C 5X1

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LONG-TERM TEMPERATURE MONITORING PROGRAM 2000-2001, NEWFOUNDLAND REGION

by

D.R. Senciall, P. Stead and E.B. Colbourne

Science, Oceans and Environment Branch
Department of Fisheries and Oceans
P. O. Box 5667
St. John's, Newfoundland
Canada, A1C 5X1

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ABSTRACT

D.R. Senciall, P. Stead and E.B. Colbourne. 2002. Long - Term Temperature Monitoring Program 2000 - 2001, Newfoundland Region. Can. Tech. Rep. Hydrogr. Ocean Sci.219: ix + 277p.

Monthly summaries of the temperature statistics including minimum, maximum, mean, standard deviations, degree day 0, degree day 4 and the number of observations are presented for thermograph deployments from 2000 - 2001 in the inshore regions of Newfoundland and Labrador. In addition, the temperature time series and location map are presented for the sampling period of each deployment.

RÉSUMÉ

D.R. Senciall, P. Stead and E.B. Colbourne. 2002. Long - Term Temperature Monitoring Program 2000 - 2001, Newfoundland Region. Can. Tech. Rep. Hydrogr. Ocean Sci.219: ix + 277p.

On présente ici des résumés des statistiques mensuelles de température, y compris des minima, des maxima, des moyennes, des écarts-types, du degré-jour 0, du degré-jour 4 et du nombre d'observations, pour les thermographes mouillés de 2000 à 2001 dans les régions côtières du Terre-Neuve et du Labrador. On et la série chronologique correspondant à la période d'échantillonnage.

103-01437

INTRODUCTION

Since the late 1960's fisheries scientists have been monitoring near-shore water temperatures at many locations around the bays and headlands off eastern Canada. The monitoring sites and the measurement periods were selected to meet the objectives of each individual process-oriented project, but all data were processed, archived and published as annual data reports as part of a Long Term Temperature Monitoring Program (LTTMP) of the Department of Fisheries and Oceans. The data archive that resulted from this program consists of temperature time series from a large number of sites distributed in the near shore region dating back to 1967 in the Newfoundland region and to 1978 in the Scotia-Fundy and Gulf of St. Lawrence region.

The quality controlled time series data from the thermographs are archived at the Northwest Atlantic Fisheries Centre (NAFC) and the data are available upon request. This report presents a summary of the data from each deployment in the Newfoundland region from 2000 to 2001. Previous LTTMP data and technical reports in this series are listed in the bibliography.

INSTRUMENTATION

The primary instrument used for collecting water temperatures in the near-shore region during the early years of the program was the Ryan model J-180 and J-90 analogue thermographs which recorded data on paper strip charts that were subsequently digitized upon recovery for processing. These instruments had a temperature range of -5 to 25°C with an accuracy of ±2.0 % or 0.6°C. The Ryan TempMentor Digital thermograph was introduced in the mid 1980s followed by digital Hugrún Seamon thermograph in the late 1980s. The Ryan TempMentor thermographs are small digital recording instruments, which can record up to 6361 temperature readings at sample intervals ranging from 1 second to 2 hours. This instrument has a range of -32 to 70°C with an accuracy of ±0.3°C. The Hugrún Seamon thermographs, introduced in the late 1980s are compact microprocessor controlled temperature recorders with the electronics and probe housed in a strong waterproof case. This instrument has a temperature range of -2.0 to 38.0°C with an accuracy of ± 0.1°C and a resolution of 0.05°C and can store up to 5400 temperature readings with sampling intervals from 1.0 second to 24.0 hours. The Vecom Minilog-T thermograph introduced in 1998 records up to 8064 temperature readings at sample intervals from 1 second to 6 hours. Two versions of this thermograph were used, one with a range of -4 to 20°C with an accuracy of ±0.2°C and a resolution of 0.1°C and one with a range of -5 to 35°C with an accuracy of ±0.3°C and a resolution of 0.2°C. During 2000 and 2001 all thermographs in use at the Department of Fisheries and Ocean's Northwest Atlantic Fisheries Centre in St. John's were digital manufactured by Hugrún and Vemco. The type of instrument is identified on the summary page for each deployment.

CALIBRATION

Each digital thermograph was calibrated prior to its deployment using temperature calibration facilities located at the Northwest Atlantic Fisheries Center. The sensor of each thermograph is submerged in a Guildline Model 5010 constant temperature water bath of 40% ethylene glycol and water where it is subjected to a series of known stable temperatures. The microprocessor bath control system provides constant cooling and heating for any temperature setting in the range -9.9 to 65.0 C. A controlled temperature is achieved in 10 to 15 minutes and maintained to within 0.002°C. Several thermographs are loaded at one time and recordings are made at -2.0, 0.0, 10.0, 15.0 and 20.0 C. Approximately 4 hours are required at each temperature setting to allow for stabilization of the water bath. The thermographs are then calibrated by entering the calibration data in a factory supplied software package. Data collected by these instruments are then automatically corrected when the data is down loaded to the computer. The calibrated thermographs are deployed to the field and returned to the oceanography section at NAFC after recovery.

DATA ANALYSIS

The data translation, calibration and down loading was carried out using the PC software supplied by the manufacturer of each instrument. All data were then archived into a common digital format on PCs for further processing using custom in-house software. Any large spikes in the data were edited and replaced by the average of the adjacent two valid points. Each temperature data time series was also trimmed by removing invalid data collected during deployment and recovery of the instrument.

DATA PRODUCTS

The quality controlled time series was used to generate monthly temperature statistics for each deployment. These included minimum and maximum temperature and the day that it occurred, the mean temperature, standard deviation, degree-day 0, degree-day 4 and the number of samples for the month. It should be noted that although the statistics are generated for each month during the deployment, some months are incomplete so that the statistics only apply to the portion of the month in which there were observations. No attempts were made to extrapolate to the full month in these cases.

In this report we present a one page summary of the deployment, which includes; station name and station number, instrument type and serial number, station position and instrument deployment depth, water depth and sampling interval. A table of the monthly statistics follows for each deployment period. The complete data set for each station is then presented as a time series plot on a time scale of 120 days per panel. If the data record was more than 120 days, a second 120-day panel was produced beneath the first.

A station location map is also provided with each time series plot. The boundaries of the unit fishing areas in the inshore regions defined by the Department of Fisheries and Oceans are shown in Figure 1. The data in this report are organized in alphabetical order in each unit area starting in NAFO Division 2H and proceeding clockwise around the island of Newfoundland. Data from

deployments in various freshwater rivers and ponds around Newfoundland are listed in a separate appendix at the end of the report in alphabetical order. For the purpose of processing, deployment sites were given a unique station number starting at 100 for each year. This report contains data from a total of 109 deployments of which 24 were in freshwater. A complete list of deployments during the two years is contained in the table of contents. Some of the time series actually started in 1999 but the instruments were not recovered until 2000. The locations of all deployment sites during 2000 and 2001 are shown in Figure 2, identified by station number.

ACKNOWLEDGEMENTS

We thank the fisheries scientists at the Northwest Atlantic Fisheries Center for making the thermograph data available. It is our pleasure to acknowledge Jacqueline Guiney, a biochemistry student, for assistance in compiling this data report and for much of the data analysis.

This document is also available digitally in Adobe PDF format from the authors.

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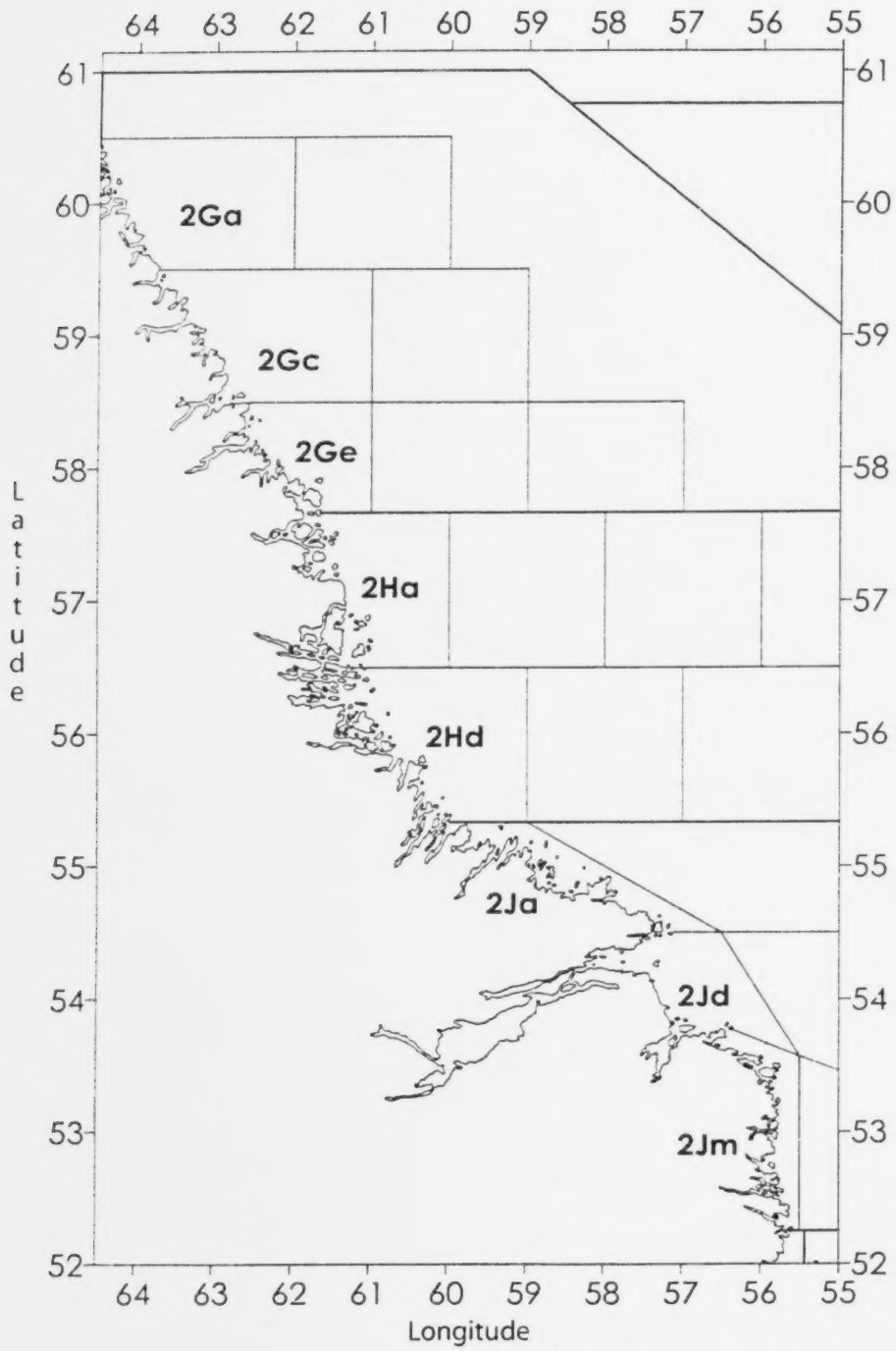


Figure 1a. Labrador inshore Unit Fishing Areas

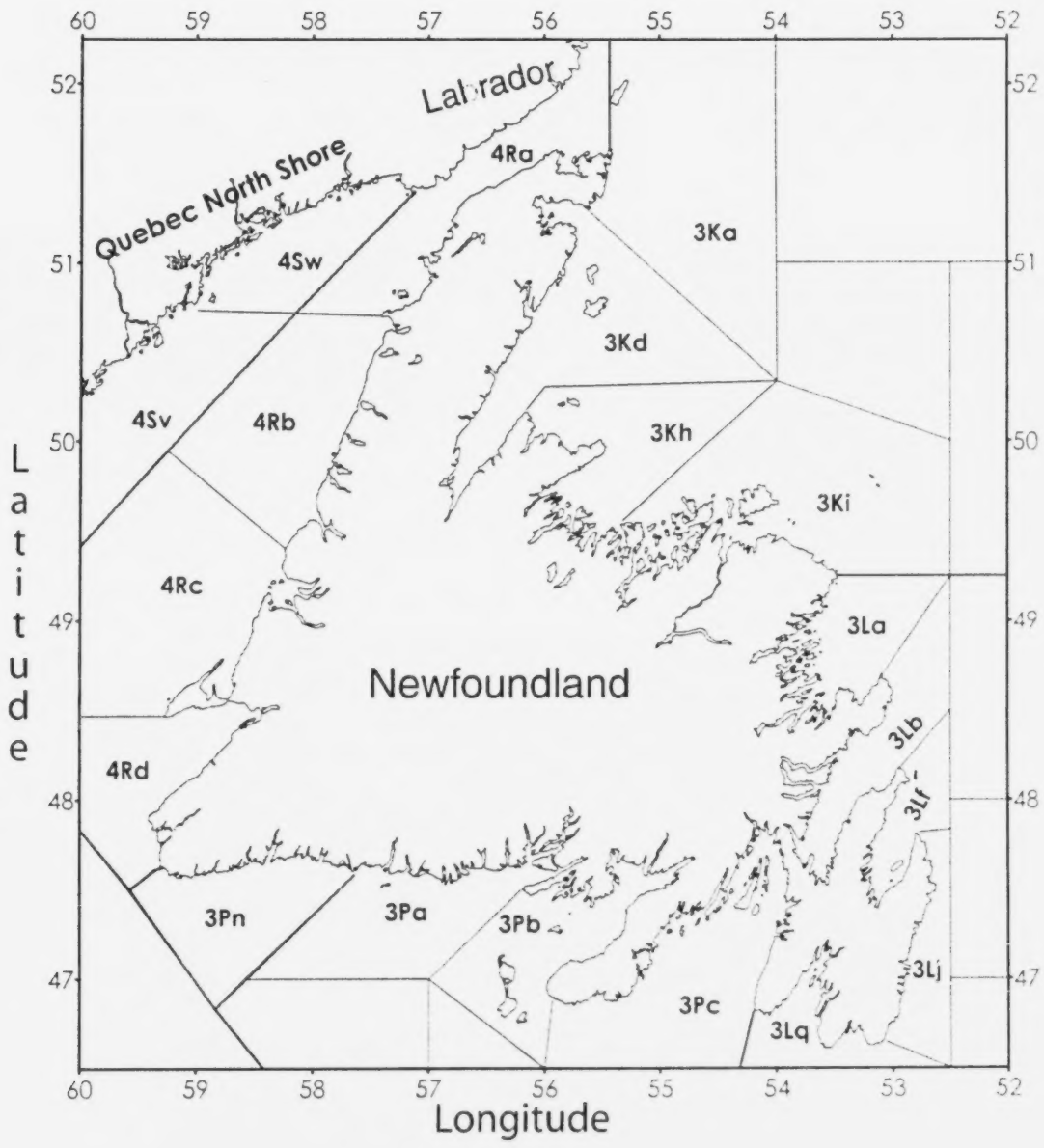


Figure 1b. Newfoundland inshore Unit Fishing Areas.

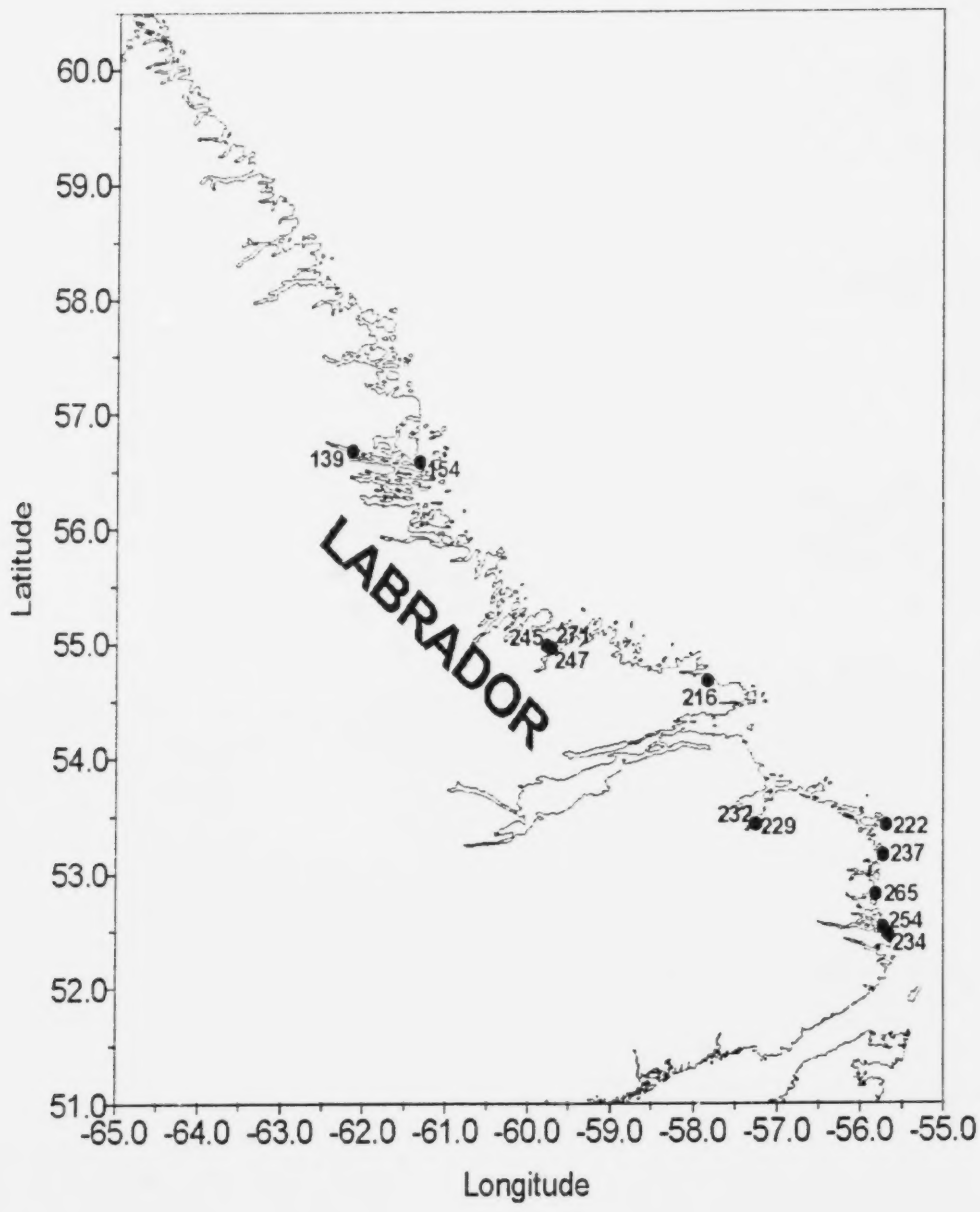


Figure 2a. The location of thermograph deployments in Labrador during 2000 and 2001. The labels indicate station numbers.

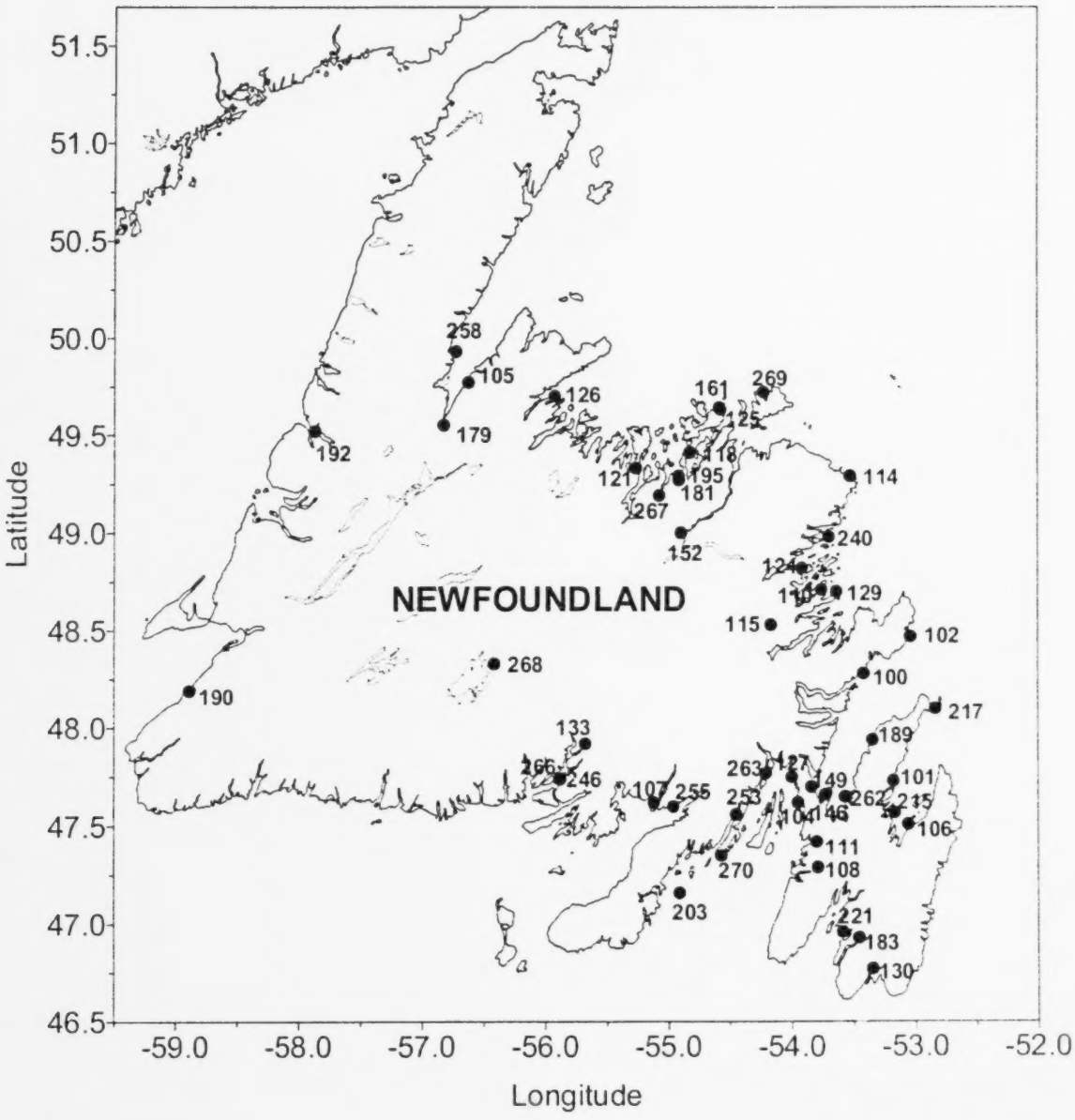


Figure 2b. The location of thermograph deployments in Newfoundland during 2000 and 2001. The labels indicate station numbers

Table 1: List of Stations for 2000 and 2001.

STN#	STATION NAME	LAT	LONG
100	OLD BONAVENTURE	48.28	-53.42
101	BRISTOL'S HOPE	47.73	-53.18
102	MELROSE, TRINITY BAY	48.47	-53.04
104	La MANCHE	47.62	-53.95
105	WEST PORT	49.77	-56.63
106	UPPER GULLIES	47.51	-53.06
107	LONG HARBOUR, FORTUNE BAY	47.62	-55.12
108	NORTHEAST PLACENTIA	47.29	-53.79
110	STOCK COVE, BONAVISTA BAY	48.71	-53.76
111	SHAG ROCKS, PLACENTIA BAY	47.42	-53.80
114	CAPE FREELS	49.29	-53.53
115	LOWER TERRA NOVA RIVER	48.53	-54.17
118	COMFORT COVE, N. D. BAY	49.41	-54.83
121	CHARLES ARM	49.33	-55.27
124	MIDDLE BROOK FISHWAY, GAMBO	48.82	-53.92
125	HERRING NECK	49.63	-54.58
126	HARRY'S HARBOUR	49.70	-55.93
127	ARNOLD'S COVE	47.75	-54.00
129	SALVAGE	48.70	-53.64
130	NORTHEAST TREPASSEY	46.77	-53.35
133	CONNE RIVER	47.92	-55.68
139	NAIN (TIKKOATOKAK BAY)	56.68	-62.15
146	BELLEVUE	47.66	-53.73
149	CHANCE COVE	47.70	-53.84
152	SALMON BROOK	49.00	-54.90
154	NAIN (LOON ISLAND)	56.58	-61.33
179	HAMPDEN, WHITE BAY	49.55	-56.83
181	CAMPBELLTON RIVER	49.27	-54.92
183	HOLYROOD POND	46.93	-53.46
189	WINTERTON	47.94	-53.35
190	LOWER HIGHLAND RIVER	48.19	-58.89
192	NORRIS PT., BONNE BAY	49.52	-57.87
195	CAMPBELLTON (ESTUARY)	49.29	-54.92
203	RED HARBOUR	47.16	-54.91
215	PORT DE GRAVE	47.57	-53.17
216	MICHAEL'S RIVER	54.67	-57.84
217	BAY DE VERDE	48.10	52.84
221	MALL BAY	46.96	-53.59
222	BLACK TICKLE	53.42	-55.70
229	PARADISE RIVER	53.43	-57.25
232	PARADISE RIVER(ESTUARY)	53.43	-57.26
234	MURRAY'S HARBOUR	52.47	-55.67
237	PENNY'S HARBOUR	53.16	-55.73
240	CENTREVILLE	48.98	-53.70
245	ENGLISH RIVER	54.97	-59.75
246	BAY D'ESPOIR	47.74	-55.89
247	ENGLISH RIVER (ESTUARY)	54.96	-59.72
253	MONKSTOWN	47.56	-54.45
254	WILLIAM'S HARBOUR	52.53	-55.73
255	NEW HARBOUR, FORTUNE BAY	47.60	-54.96
258	JACKSON'S ARM	49.93	-56.73
261	TOOGOOD ARM	49.64	-54.59

STN#	STATION NAME	LAT	LONG
262	HOPEALL	47.65	-53.57
263	WOODY ISLAND	47.77	-54.21
265	TRIANGLE, LABRADOR	52.82	-55.82
266	MAY COVE	47.74	-55.88
267	THWART ISLAND	49.19	-55.08
268	HARDY COVE	48.33	-56.42
269	FOGO	49.72	-54.23
270	PARADISE, PLACENTIA BAY	47.35	-54.57
271	ENGLISH RIVER POND	54.98	-59.78

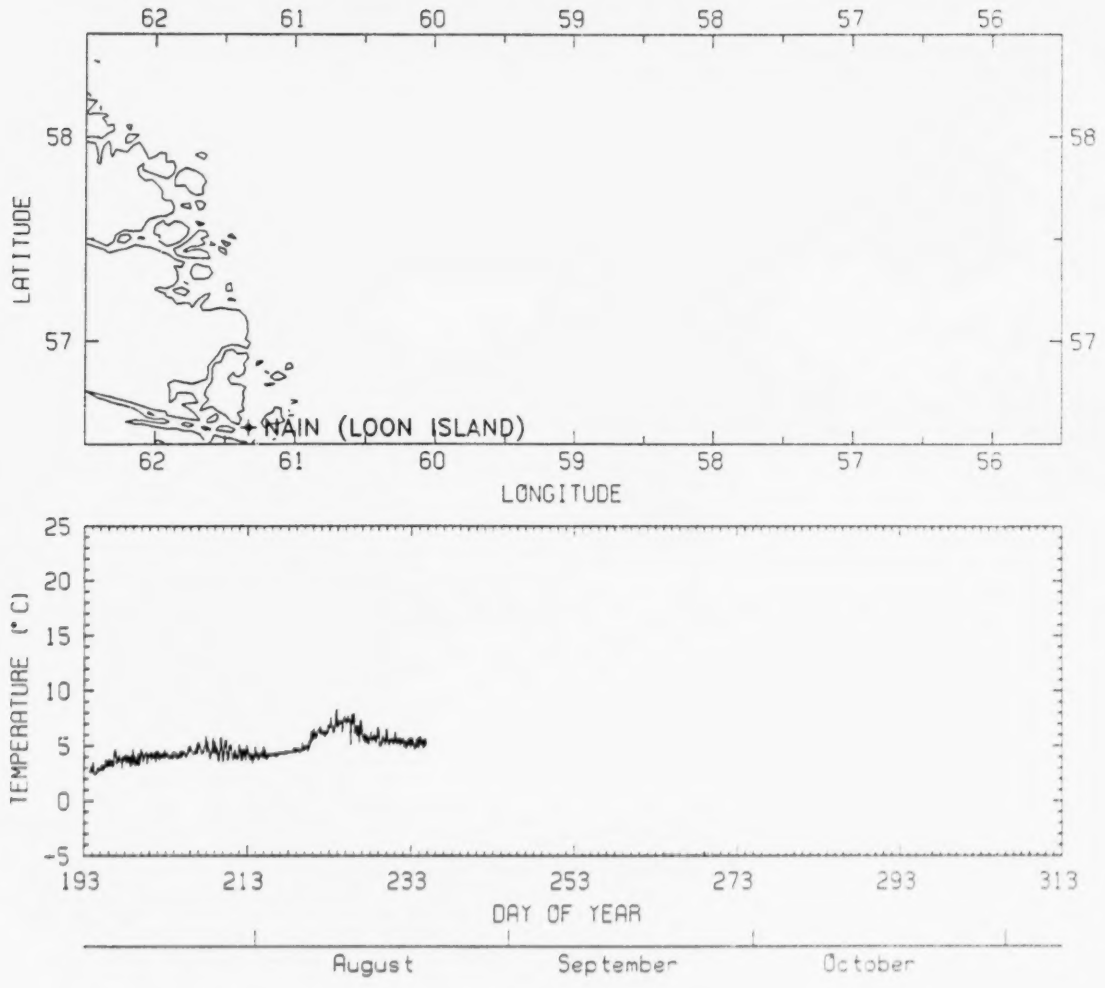
Appendix 1. Time Series Plots and Monthly Statistics from Unit Area 2Ge.

THERMOGRAPH DATA SUMMARY

STATION NAME:	NAIN (LOON ISLAND)
STATION NUMBER:	154
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	003267
LATITUDE:	56.58° N
LONGITUDE:	61.33° W
INSTRUMENT DEPTH:	3 m
WATER DEPTH:	3 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	11-JUL-2000 16:00 GMT
RECOVERY DATE/TIME:	21-AUG-2000 18:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2000	2.40	194	5.85	207	4.06	0.63	84.4	4.8	488
AUG-2000	3.70	214	8.30	223	5.48	1.01	115.1	31.1	499
T.PERIOD	2.40	194	8.30	223	4.78	1.10	199.5	35.9	987



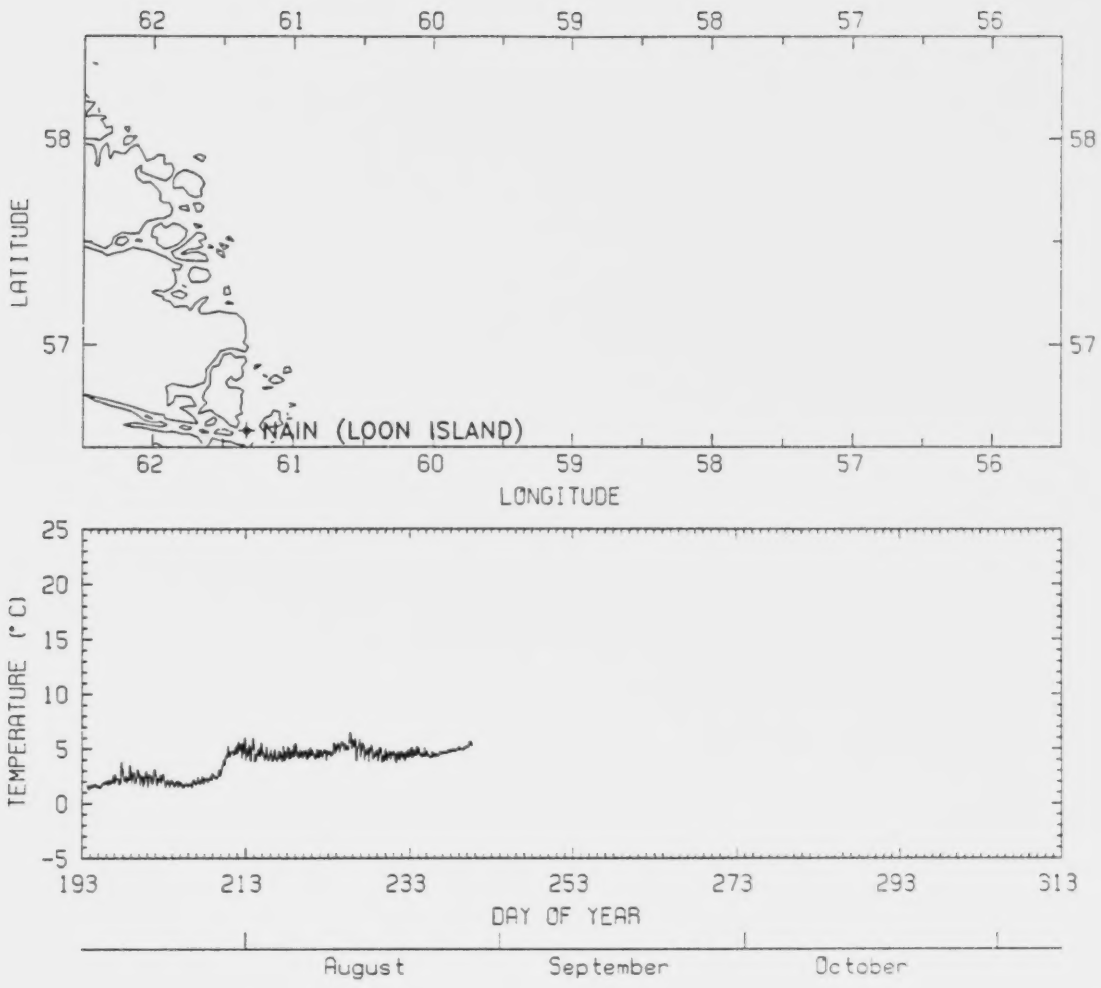
Start: 11-JUL-2000 End: 21-AUG-2000 Inst. S/N:3267

THERMOGRAPH DATA SUMMARY

STATION NAME:	NAIN (LOON ISLAND)
STATION NUMBER:	154
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007930
LATITUDE:	56.58° N
LONGITUDE:	61.33° W
INSTRUMENT DEPTH:	3 m
WATER DEPTH:	3 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	12-JUL-2001 14:00 GMT
RECOVERY DATE/TIME:	28-AUG-2001 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2001	1.25	193	6.00	212	2.46	1.02	48.6	1.8	466
AUG-2001	3.65	229	6.45	225	4.64	0.46	130.4	18.4	662
T.PERIOD	1.25	193	6.45	225	3.74	1.31	179.0	20.1	1128



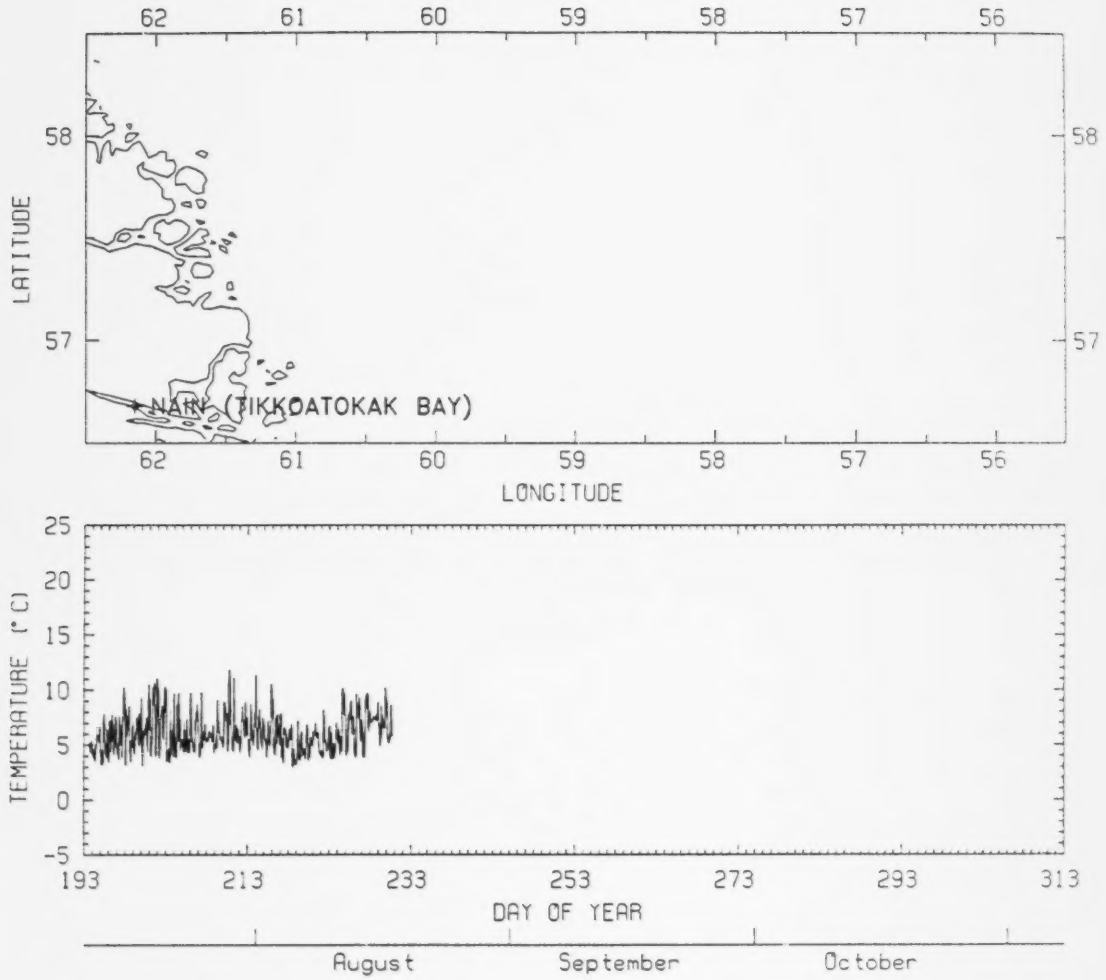
Start: 12-JUL-2001 End: 28-AUG-2001 Inst. S/N: 7930

THERMOGRAPH DATA SUMMARY

STATION NAME:	NAIN (TIKKOATOKAK BAY)
STATION NUMBER:	139
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	003287
LATITUDE:	56.68° N
LONGITUDE:	62.15° W
INSTRUMENT DEPTH:	3 m
WATER DEPTH:	3 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	11-JUL-2000 17:00 GMT
RECOVERY DATE/TIME:	17-AUG-2000 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2000	3.10	200	11.85	210	6.01	1.70	125.4	41.4	487
AUG-2000	3.00	218	11.35	214	6.00	1.64	102.1	34.1	402
T.PERIOD	3.00	218	11.85	210	6.01	1.67	227.5	75.5	889



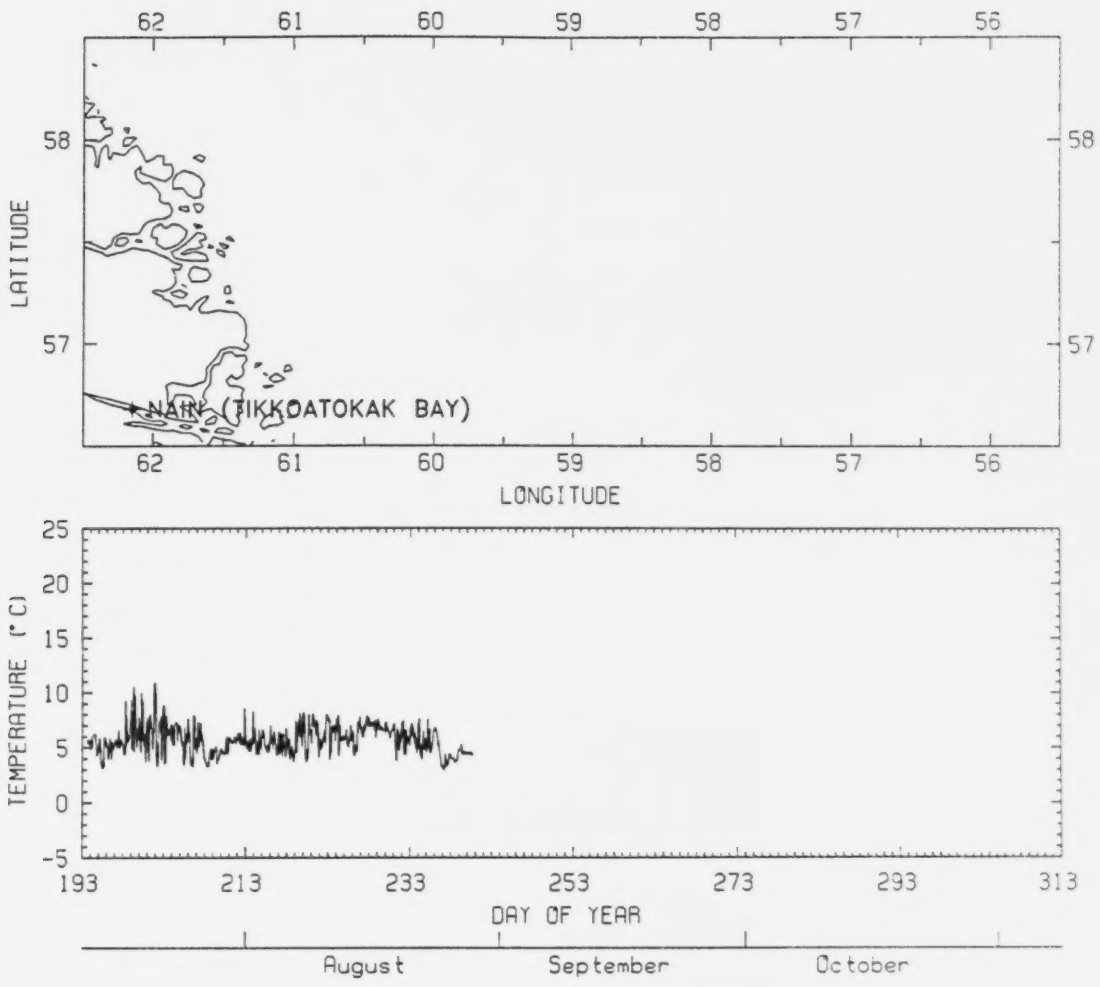
Start: 11-JUL-2000 End: 17-AUG-2000 Inst. S/N:3287

THERMOGRAPH DATA SUMMARY

STATION NAME:	NAIN (TIKKOATOKAK BAY)
STATION NUMBER:	139
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	003287
LATITUDE:	56.68° N
LONGITUDE:	62.15° W
INSTRUMENT DEPTH:	3 m
WATER DEPTH:	3 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	12-JUL-2001 15:00 GMT
RECOVERY DATE/TIME:	28-AUG-2001 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2001	3.10	195	10.90	201	5.61	1.36	112.1	32.1	465
AUG-2001	2.95	237	8.25	213	5.69	1.15	158.9	47.2	663
T.PERIOD	2.95	237	10.90	201	5.66	1.24	271.0	79.3	1128



Start: 12-JUL-2001 End: 28-AUG-2001 Inst. S/N:3287

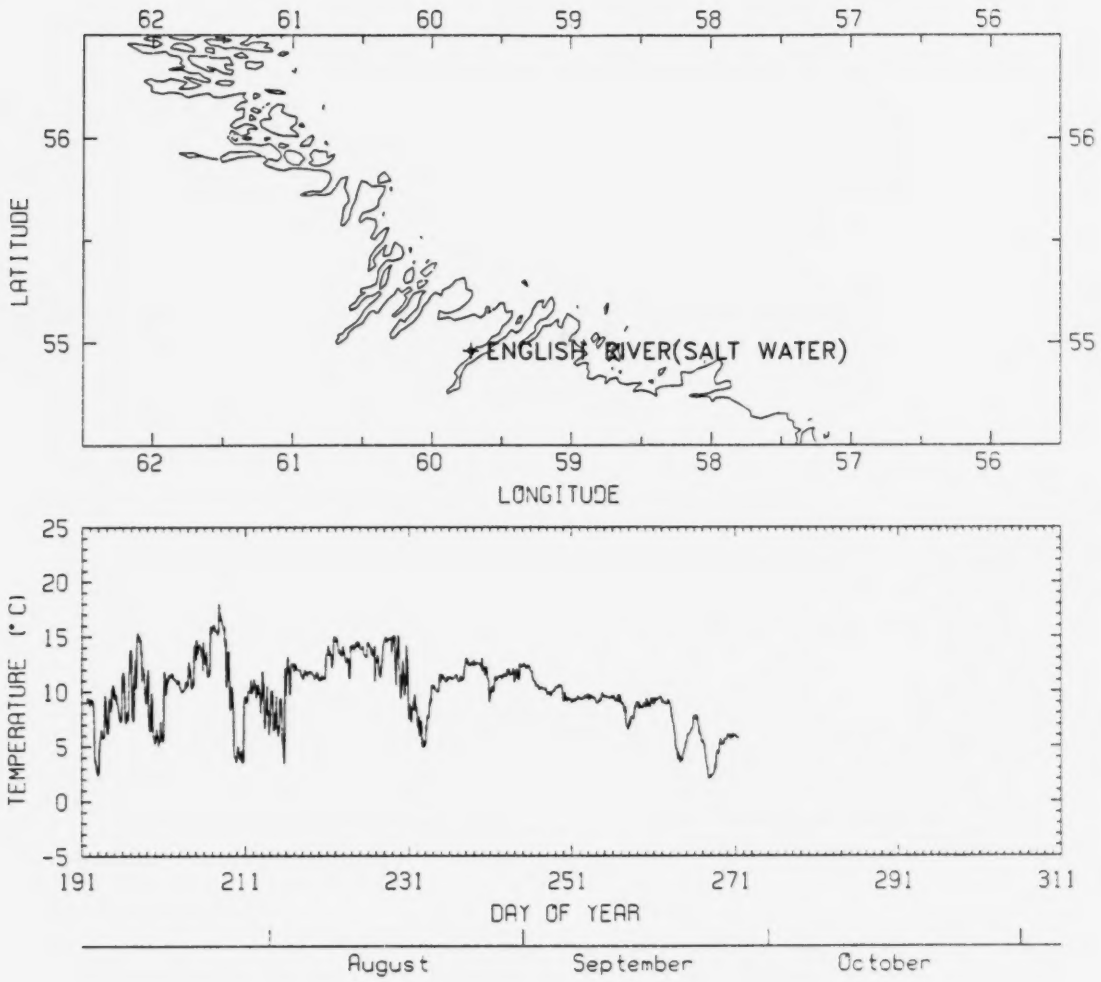
Appendix 2. Time Series Plots and Monthly Statistics from Unit Area 2Ja.

THERMOGRAPH DATA SUMMARY

STATION NAME:	ENGLISH RIVER(SALT WATER)
STATION NUMBER:	247
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	008964
LATITUDE:	54.96° N
LONGITUDE:	59.72° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	09-JUL-2000 15:00 GMT
RECOVERY DATE/TIME:	27-SEP-2000 10:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2000	2.40	192	17.95	207	9.92	3.27	227.8	135.8	537
AUG-2000	3.40	215	15.10	229	11.48	2.19	355.8	231.8	744
SEP-2000	2.05	267	12.50	245	8.14	2.31	218.6	111.8	635
T.PERIOD	2.05	267	17.95	207	9.94	2.94	802.2	479.4	1916



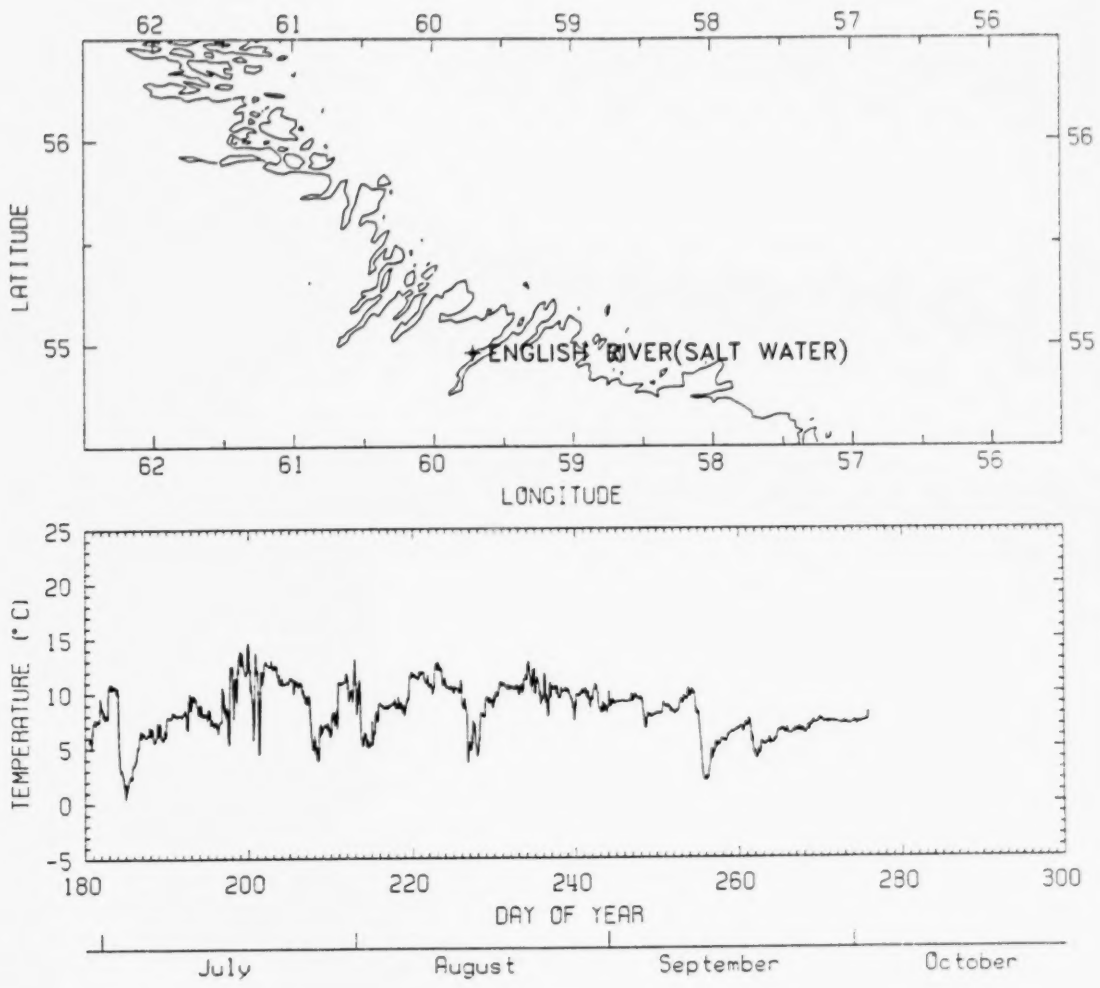
Start: 9-JUL-2000 End: 27-SEP-2000 Inst. S/N:8964

THERMOGRAPH DATA SUMMARY

STATION NAME:	ENGLISH RIVER(SALT WATER)
STATION NUMBER:	247
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	006598
LATITUDE:	54.96° N
LONGITUDE:	59.72° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	29-JUN-2001 12:00 GMT
RECOVERY DATE/TIME:	02-OCT-2001 22:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2001	5.10	180	9.65	181	7.11	1.06	13.6	5.6	36
JUL-2001	0.35	185	14.65	199	8.55	2.77	264.9	143.2	744
AUG-2001	3.65	226	12.85	223	9.51	1.75	294.9	170.9	744
SEP-2001	1.95	255	10.40	253	7.15	1.69	214.5	95.1	720
OCT-2001	7.00	274	8.25	275	7.36	0.20	14.7	6.7	47
T.PERIOD	0.35	185	14.65	199	8.37	2.31	802.7	421.5	2291



Start: 29-JUN-2001 End: 2-OCT-2001 Inst. S/N:6598

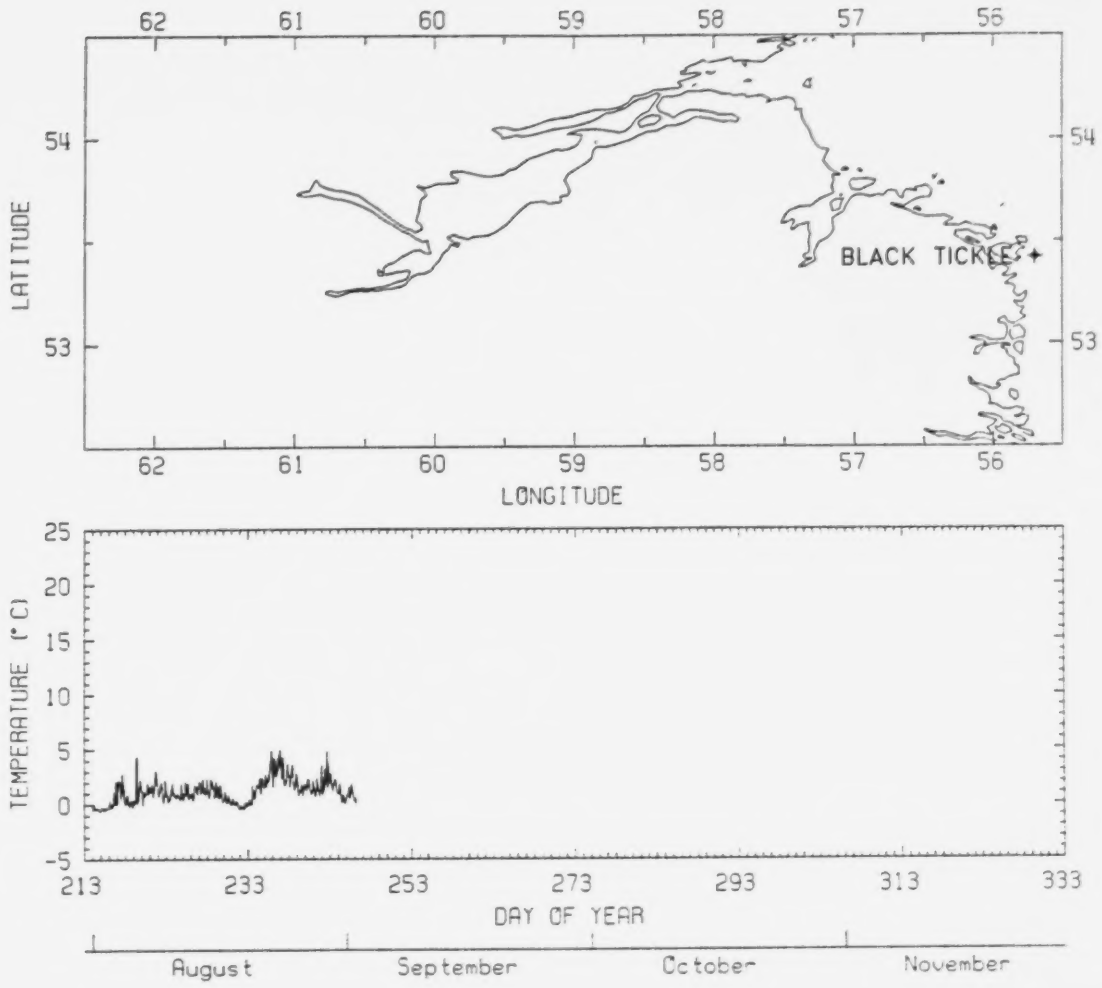
Appendix 3. Time Series Plots and Monthly Statistics from Unit Area 2Jm.

THERMOGRAPH DATA SUMMARY

STATION NAME:	BLACK TICKLE
STATION NUMBER:	222
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	005516
LATITUDE:	53.42° N
LONGITUDE:	55.70° W
INSTRUMENT DEPTH:	26 m
WATER DEPTH:	28 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	31-JUL-2000 23:00 GMT
RECOVERY DATE/TIME:	02-SEP-2000 04:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2000	-0.50	213	-0.50	213	-0.50	0.00	0.0	0.0	1
AUG-2000	-0.60	214	4.95	236	1.19	1.07	37.7	0.0	744
SEP-2000	0.05	246	1.85	245	0.81	0.42	1.2	0.0	29
T.PERIOD	-0.60	214	4.95	236	1.17	1.06	39.0	0.0	774



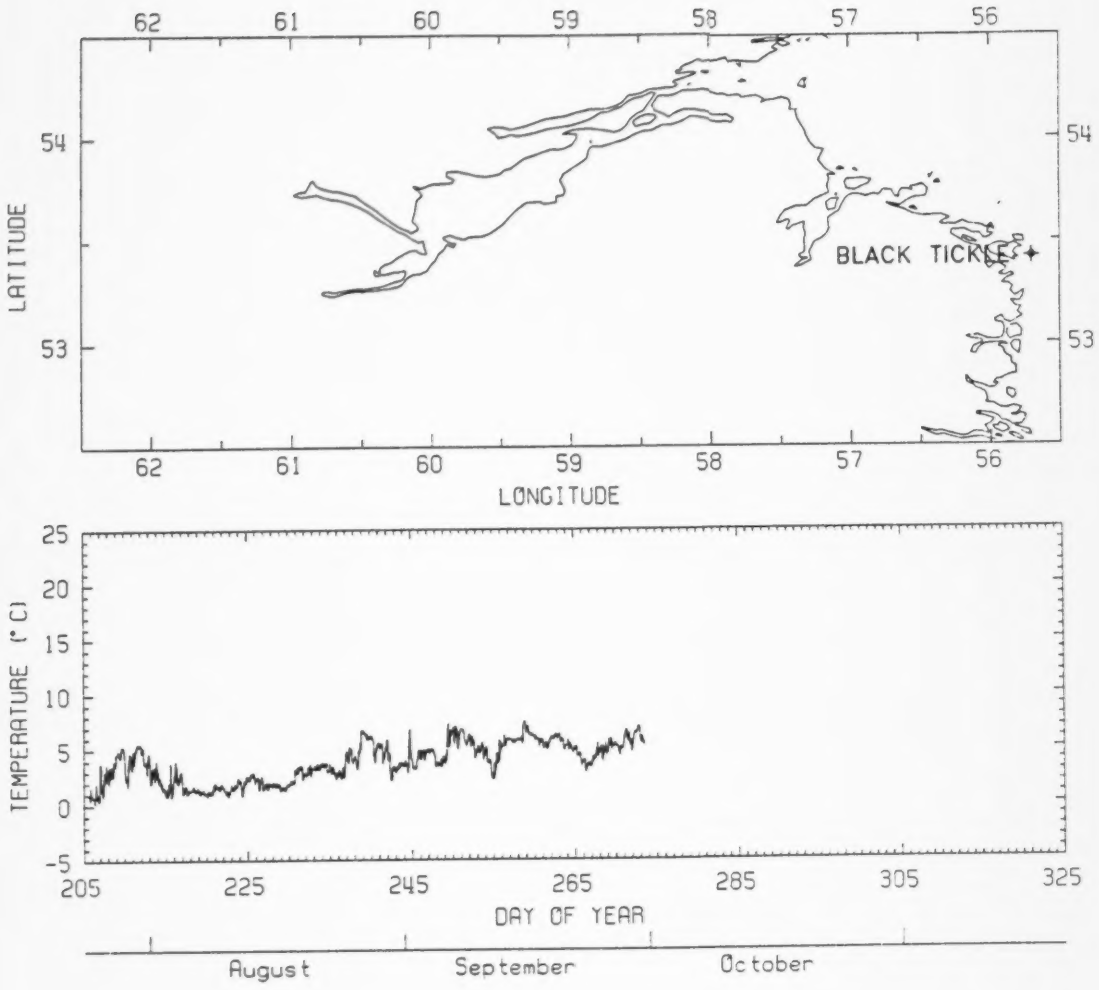
Start: 31-JUL-2000 End: 2-SEP-2000 Inst. S/N:5516

THERMOGRAPH DATA SUMMARY

STATION NAME:	Black Tickle
STATION NUMBER:	222
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	006247
LATITUDE:	53.42° N
LONGITUDE:	55.70° W
INSTRUMENT DEPTH:	23 m
WATER DEPTH:	25 m
SAMPLE INTERVAL:	30 min.
DEPLOYMENT DATE/TIME:	24-JUL-2001 15:00 GMT
RECOVERY DATE/TIME:	30-SEP-2001 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2001	0.20	206	5.50	211	3.25	1.56	24.5	1.9	354
AUG-2001	0.70	215	6.70	238	2.71	1.37	83.9	5.6	1488
SEP-2001	2.30	254	7.50	258	5.13	1.01	154.1	35.2	1417
T.PERIOD	0.20	206	7.50	258	3.82	1.71	262.6	42.7	3259



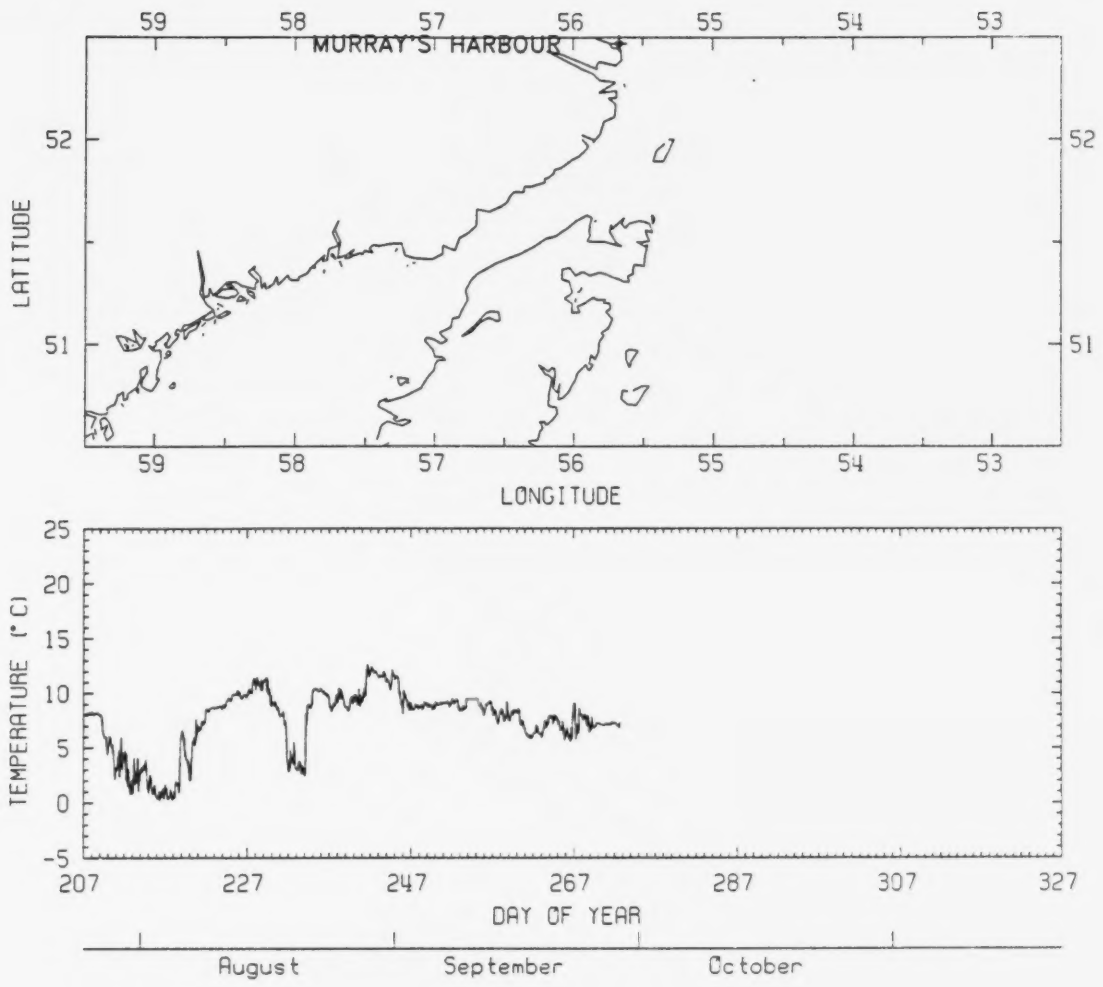
Start: 24-JUL-2001 End: 30-SEP-2001 Inst. S/N:6247

THERMOGRAPH DATA SUMMARY

STATION NAME:	MURRAY'S HARBOUR
STATION NUMBER:	234
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007820
LATITUDE:	52.47° N
LONGITUDE:	55.67° W
INSTRUMENT DEPTH:	13 m
WATER DEPTH:	17 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	25-JUL-2000 01:00 GMT
RECOVERY DATE/TIME:	28-SEP-2000 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2000	0.80	212	8.30	208	5.11	2.46	35.9	11.4	167
AUG-2000	0.15	216	12.60	241	7.59	3.51	235.3	124.9	744
SEP-2000	5.55	266	11.55	245	8.05	1.15	225.1	113.1	665
T.PERIOD	0.15	216	12.60	241	7.52	2.78	496.3	249.3	1576



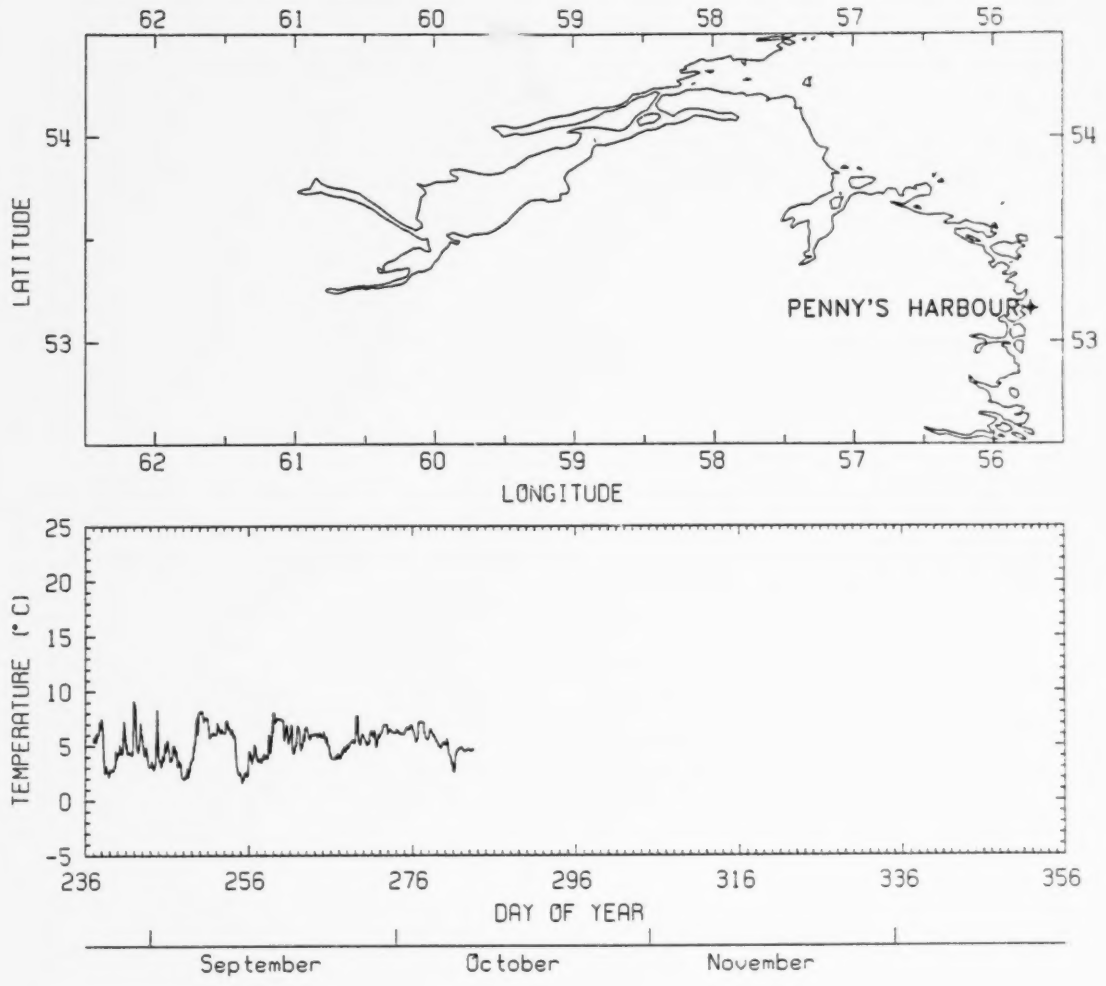
Start: 25-JUL-2000 End: 28-SEP-2000 Inst. S/N: 7820

THERMOGRAPH DATA SUMMARY

STATION NAME:	Penny's Harbour
STATION NUMBER:	237
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	002185
LATITUDE:	53.16° N
LONGITUDE:	55.73° W
INSTRUMENT DEPTH:	27 m
WATER DEPTH:	29 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	24-AUG-2001 23:00 GMT
RECOVERY DATE/TIME:	10-OCT-2001 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
AUG-2001	2.10	238	9.10	241	4.72	1.51	38.6	7.8	169
SEP-2001	1.60	255	8.30	244	5.20	1.49	155.9	40.2	720
OCT-2001	2.60	281	7.20	276	5.44	1.01	54.0	14.0	229
T.PERIOD	1.60	255	9.10	241	5.17	1.42	248.4	61.9	1118



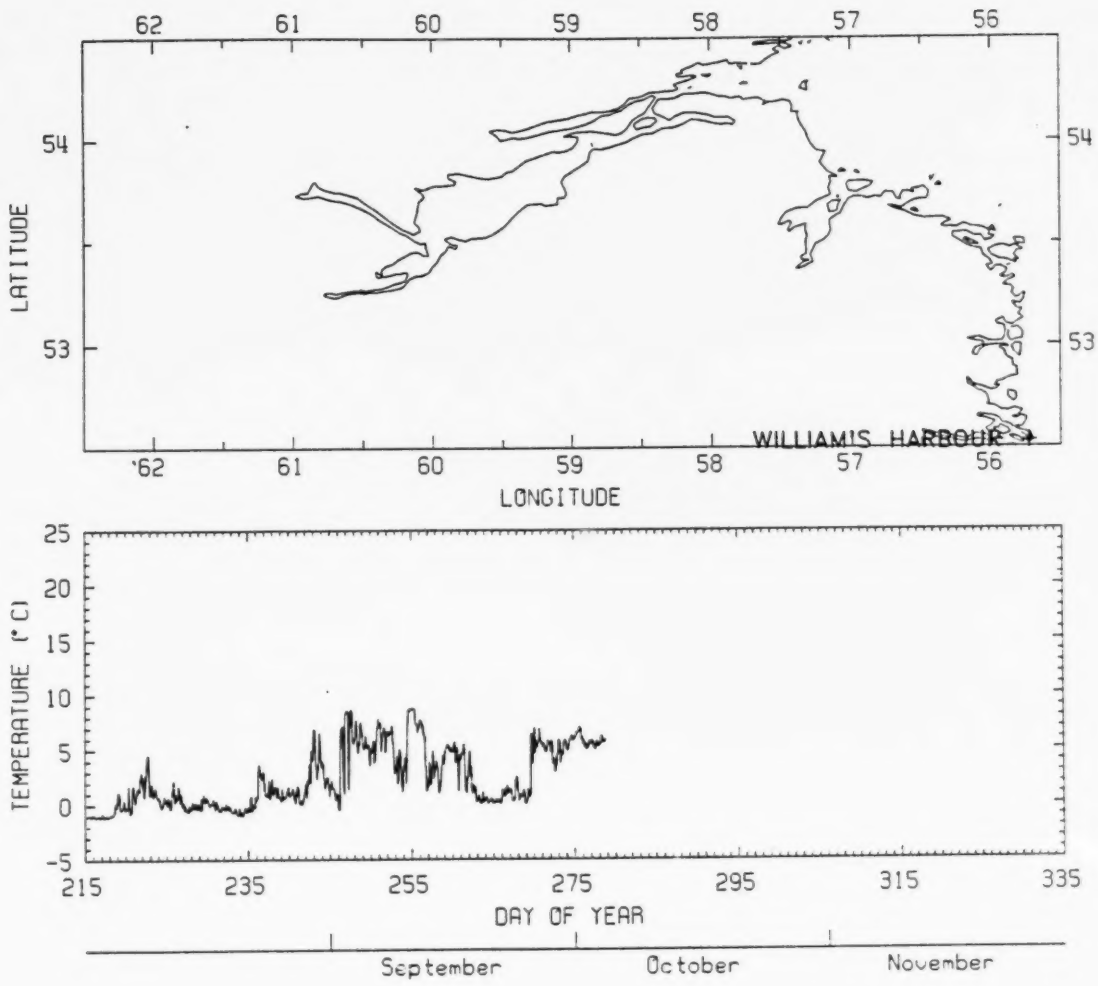
Start: 24-AUG-2001 End: 10-OCT-2001 Inst. S/N:2185

THERMOGRAPH DATA SUMMARY

STATION NAME:	WILLIAM'S HARBOUR
STATION NUMBER:	254
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	005475
LATITUDE:	52.53° N
LONGITUDE:	55.73° W
INSTRUMENT DEPTH:	31 m
WATER DEPTH:	35 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	02-AUG-2000 10:00 GMT
RECOVERY DATE/TIME:	04-OCT-2000 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
AUG-2000	-1.15	216	6.90	243	0.61	1.40	23.8	0.5	710
SEP-2000	-0.50	246	8.75	255	3.93	2.52	117.8	27.5	720
OCT-2000	4.95	277	6.95	275	5.79	0.49	23.1	7.1	90
T.PERIOD	-1.15	216	8.75	255	2.49	2.68	164.7	35.2	1520



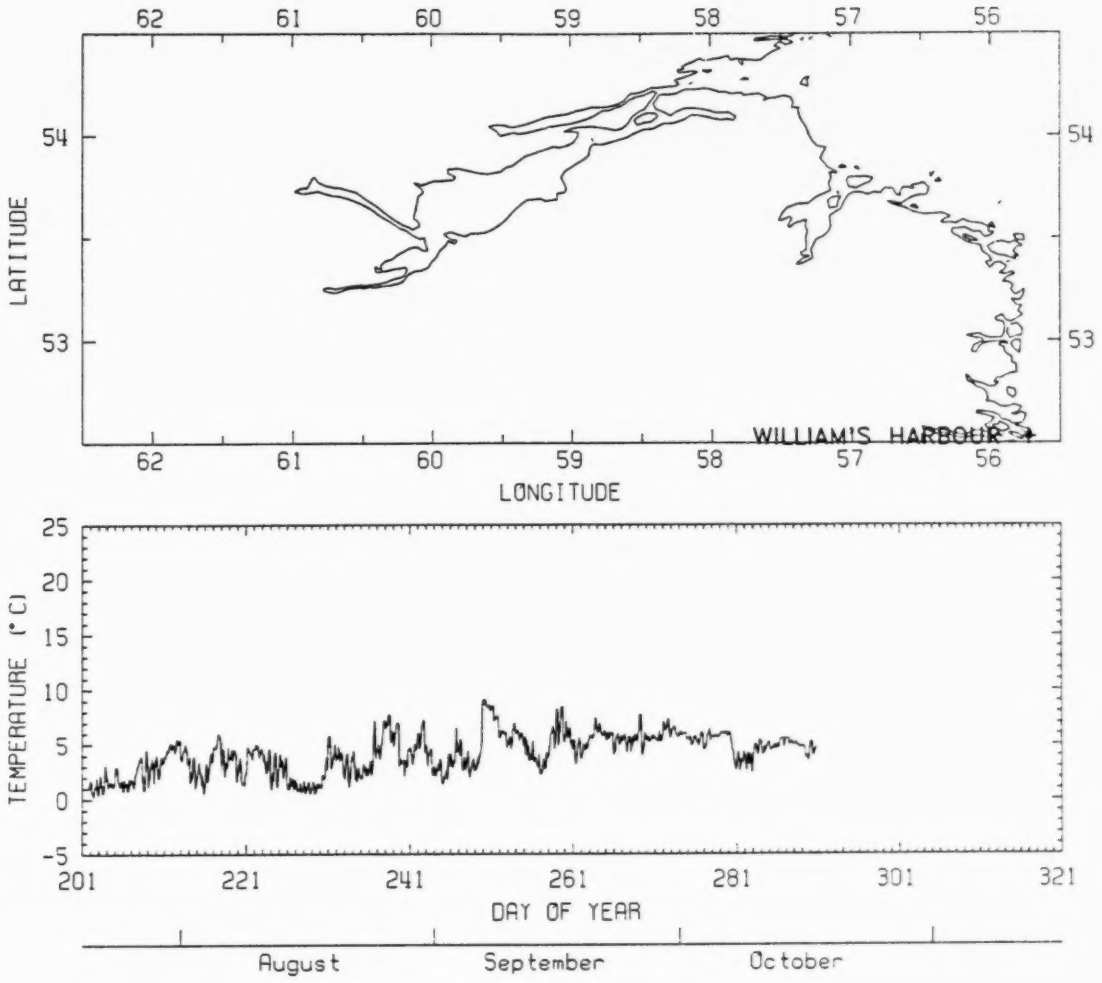
Start: 2-AUG-2000 End: 4-OCT-2000 Inst. S/N:5475

THERMOGRAPH DATA SUMMARY

STATION NAME:	William's Harbour
STATION NUMBER:	254
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	002187
LATITUDE:	52.53° N
LONGITUDE:	55.73° W
INSTRUMENT DEPTH:	33 m
WATER DEPTH:	37 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	20-JUL-2001 18:00 GMT
RECOVERY DATE/TIME:	17-OCT-2001 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2001	0.20	202	5.50	212	2.46	1.40	28.5	1.4	270
AUG-2001	0.50	215	7.70	238	3.38	1.61	104.9	9.5	744
SEP-2001	1.40	245	9.10	250	5.21	1.55	156.2	41.3	720
OCT-2001	2.40	282	6.40	277	4.94	0.84	83.9	16.9	401
T.PERIOD	0.20	202	9.10	250	4.17	1.77	373.5	69.1	2135



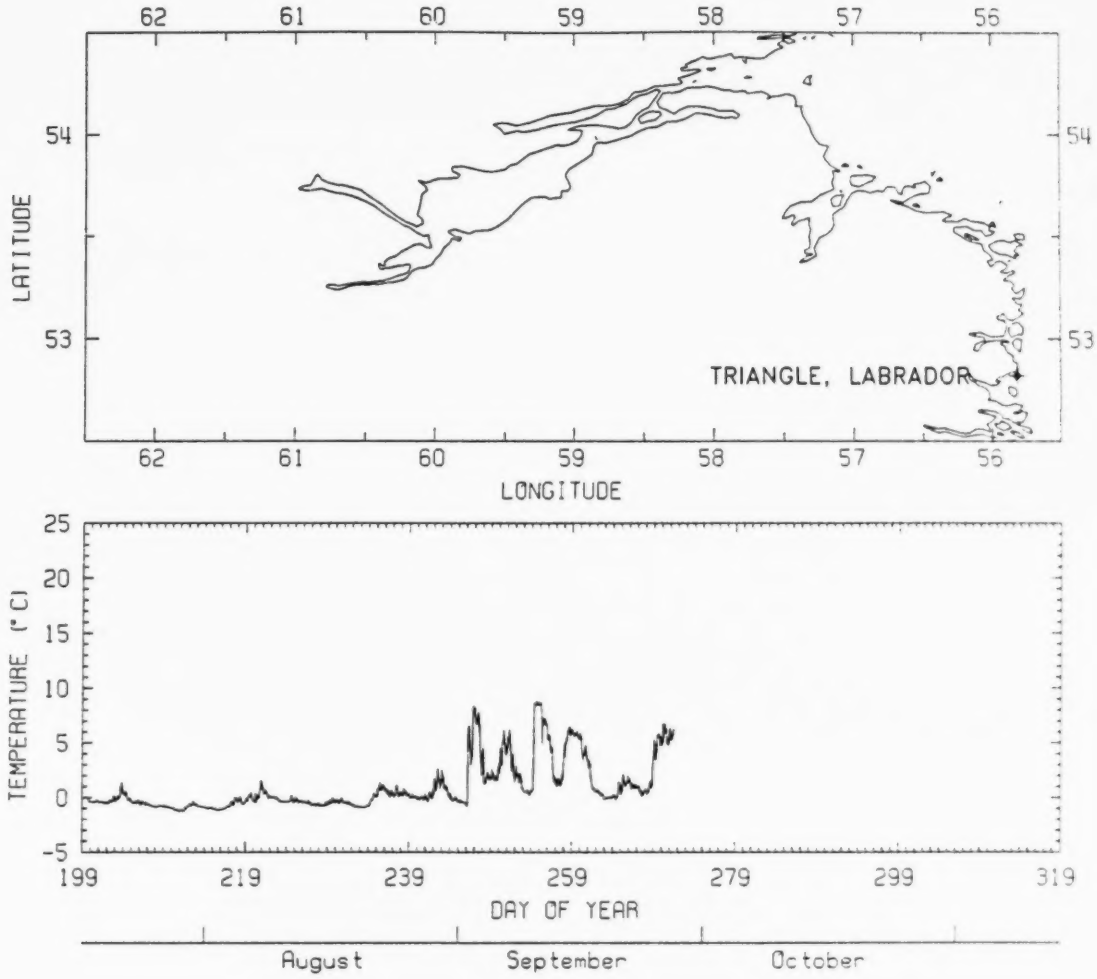
Start: 20-JUL-2001 End: 17-OCT-2001 Inst. S/N:2187

THERMOGRAPH DATA SUMMARY

STATION NAME:	TRIANGLE, LABRADOR
STATION NUMBER:	265
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	008968
LATITUDE:	52.82° N
LONGITUDE:	55.82° W
INSTRUMENT DEPTH:	44 m
WATER DEPTH:	46 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	17-JUL-2000 17:00 GMT
RECOVERY DATE/TIME:	27-SEP-2000 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2000	-1.30	210	1.35	203	-0.56	0.42	0.3	0.0	343
AUG-2000	-1.20	215	2.60	242	-0.17	0.62	4.9	0.0	744
SEP-2000	-0.85	246	8.75	254	2.94	2.55	81.0	15.1	638
T.PERIOD	-1.30	210	8.75	254	0.90	2.25	86.2	15.1	1725



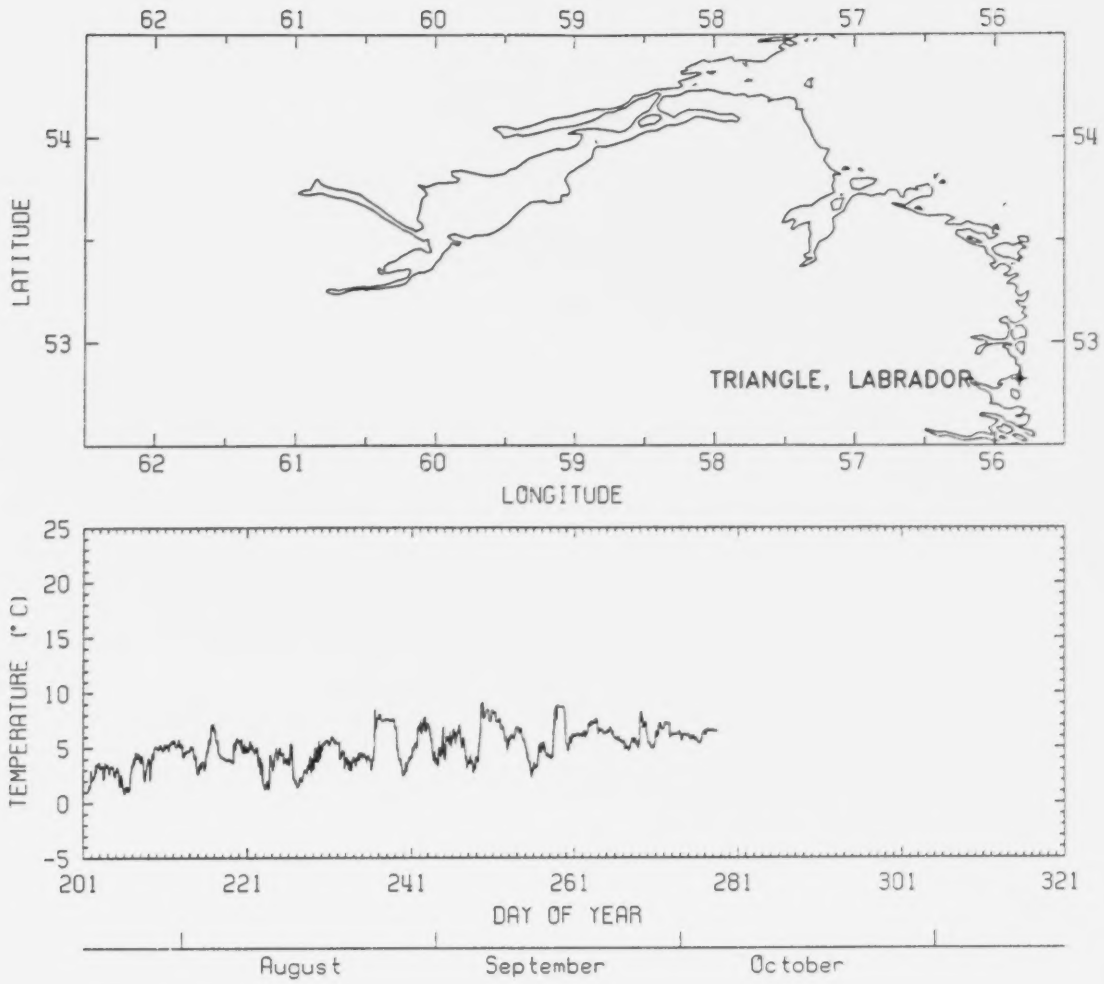
Start: 17-JUL-2000 End: 27-SEP-2000 Inst. S/N:8968

THERMOGRAPH DATA SUMMARY

STATION NAME:	TRIANGLE, LABRADOR
STATION NUMBER:	265
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	004346
LATITUDE:	52.82° N
LONGITUDE:	55.82° W
INSTRUMENT DEPTH:	27 m
WATER DEPTH:	30 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	20-JUL-2001 15:00 GMT
RECOVERY DATE/TIME:	05-OCT-2001 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2001	0.80	206	5.80	212	3.56	1.33	41.5	3.7	273
AUG-2001	1.20	223	8.50	236	4.60	1.49	142.5	25.6	744
SEP-2001	2.30	255	9.10	249	5.97	1.35	179.1	59.8	720
OCT-2001	5.40	276	6.70	277	6.13	0.37	30.8	10.8	109
T.PERIOD	0.80	206	9.10	249	5.07	1.64	393.9	100.0	1846



Start: 20-JUL-2001 End: 5-OCT-2001 Inst. S/N:4346

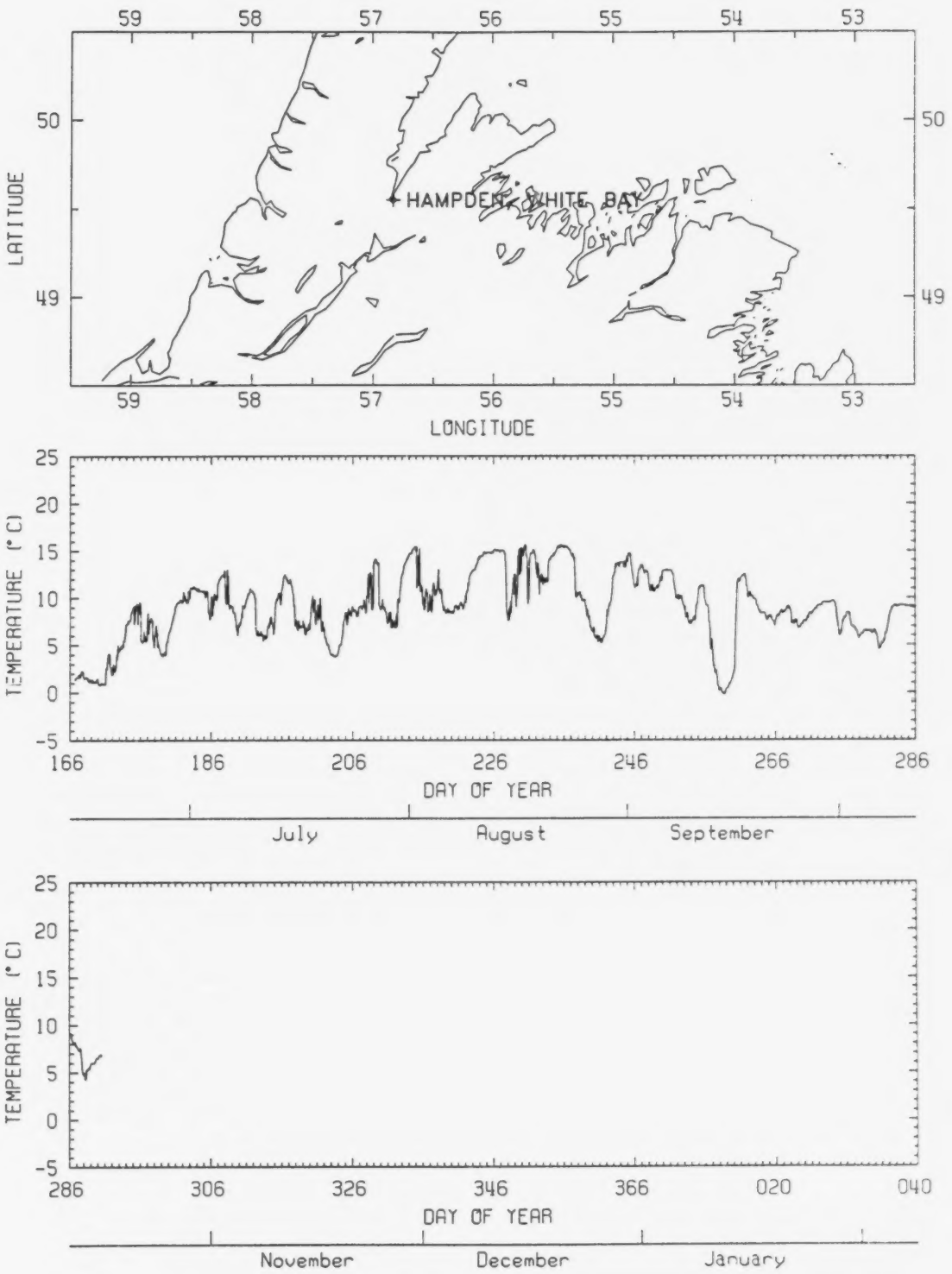
Appendix 4. Time Series Plots and Monthly Statistics from Unit Area 3Kd.

THERMOGRAPH DATA SUMMARY

STATION NAME:	HAMPDEN, WHITE BAY
STATION NUMBER:	179
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	003830
LATITUDE:	49.55° N
LONGITUDE:	56.83° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	55 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	14-JUN-2000 16:00 GMT
RECOVERY DATE/TIME:	16-OCT-2000 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2000	0.80	170	10.70	182	5.08	3.06	84.0	31.3	392
JUL-2000	3.80	203	14.60	213	8.89	2.39	275.7	151.8	744
AUG-2000	5.20	241	15.60	230	11.82	2.90	366.4	242.4	744
SEP-2000	-0.20	258	14.70	245	8.84	3.32	265.1	154.0	720
OCT-2000	4.20	288	9.20	283	7.16	1.41	114.4	50.4	376
T.PERIOD	-0.20	258	15.60	230	8.89	3.48	1105.7	629.9	2976



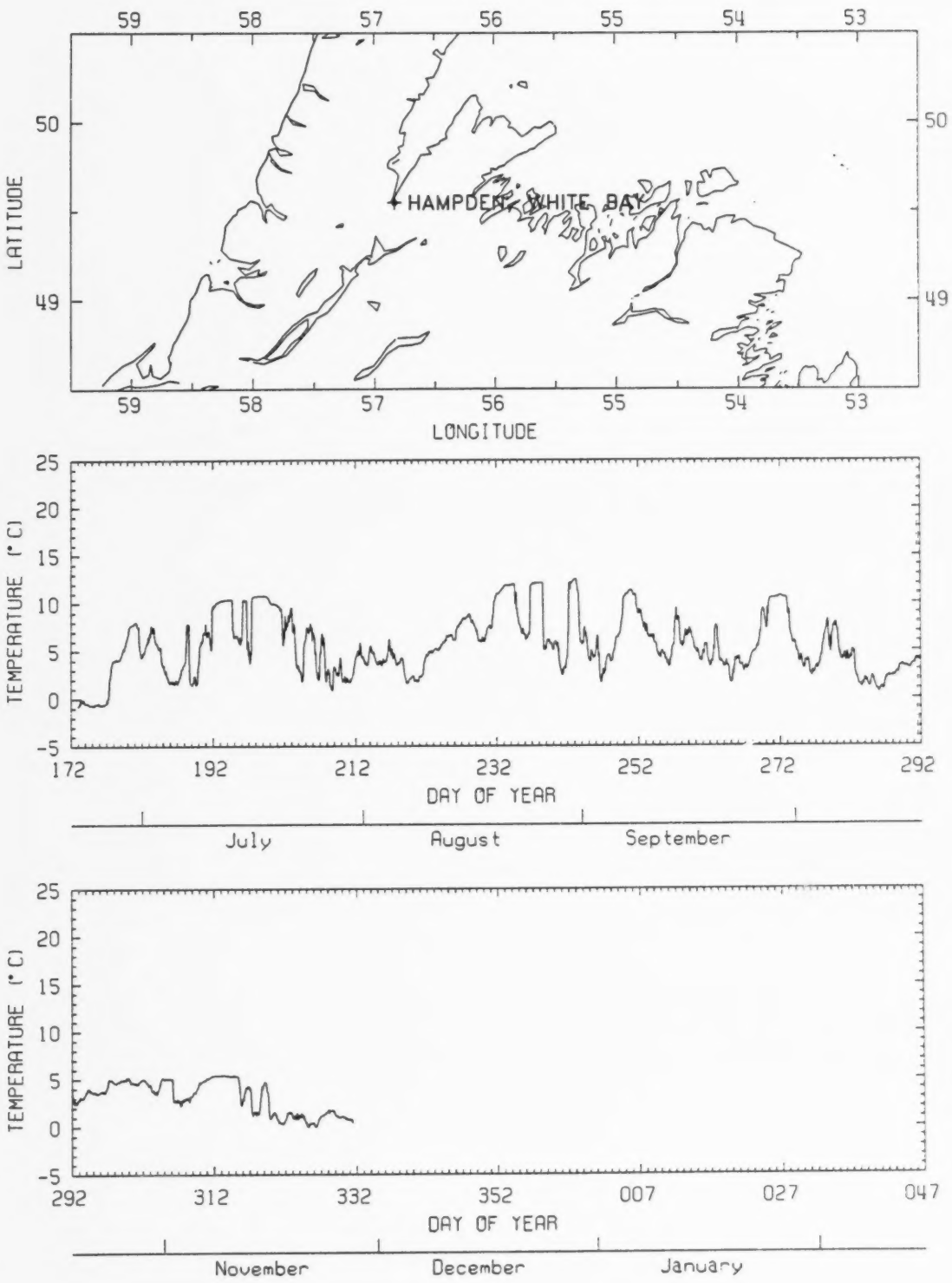
Start: 14-JUN-2000 End: 16-OCT-2000 Inst. S/N: 3830

THERMOGRAPH DATA SUMMARY

STATION NAME:	HAMPDEN, WHITE BAY
STATION NUMBER:	179
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	008A09
LATITUDE:	49.55° N
LONGITUDE:	56.83° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	46 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	21-JUN-2001 23:00 GMT
RECOVERY DATE/TIME:	27-NOV-2001 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2001	-0.75	172	8.00	181	2.54	3.26	25.2	7.5	217
JUL-2001	0.85	208	10.80	199	5.91	3.11	183.2	73.6	744
AUG-2001	1.50	219	12.45	243	6.61	3.10	204.8	87.6	744
SEP-2001	1.60	246	11.35	250	6.16	2.54	184.9	68.0	720
OCT-2001	0.60	286	8.25	278	3.78	1.44	117.0	13.1	744
NOV-2001	-0.05	325	5.45	313	2.66	1.82	70.8	7.2	637
T.PERIOD	-0.75	172	12.45	243	4.94	3.01	785.9	256.9	3806



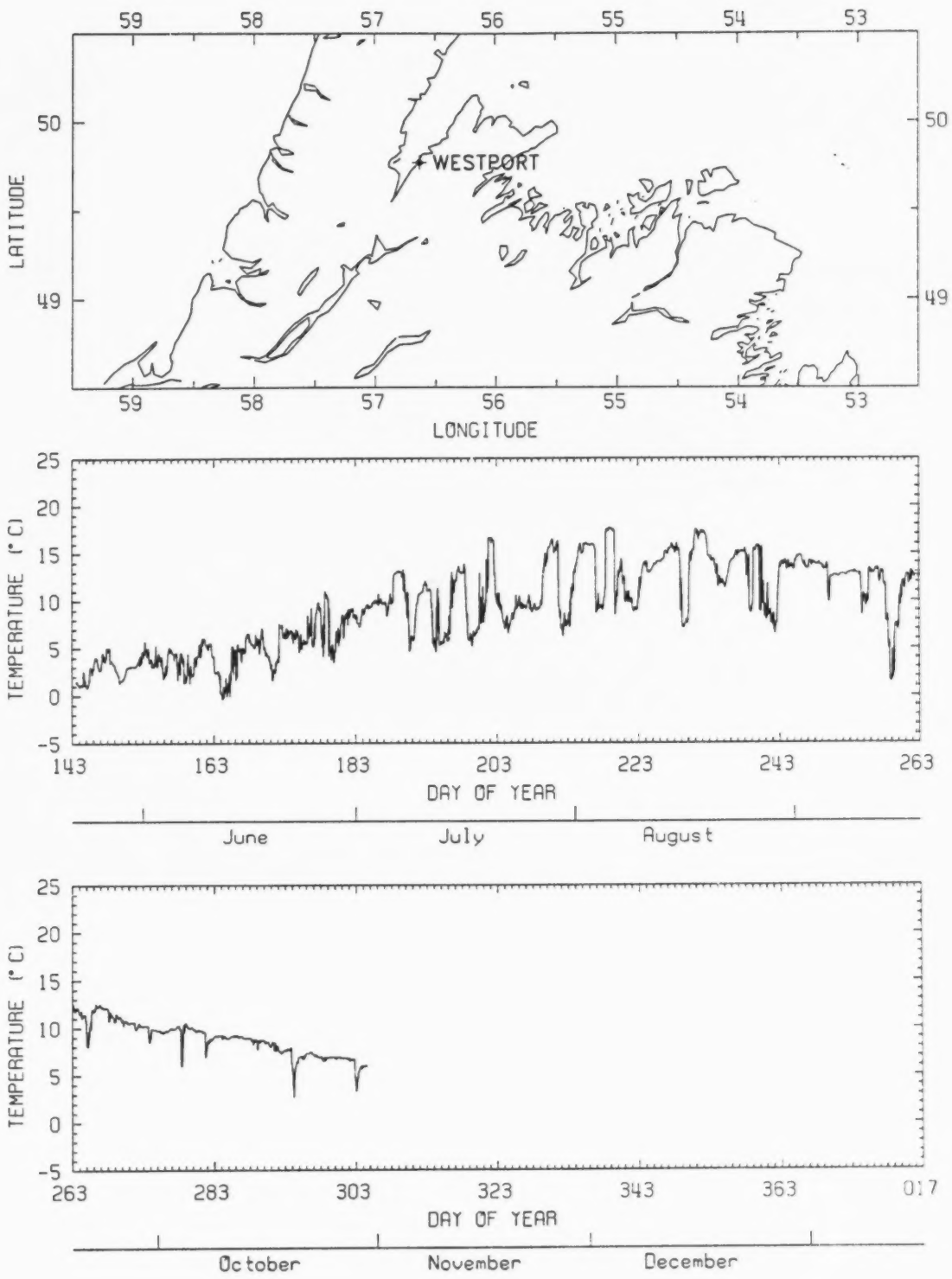
Start:21-JUN-2001 End:27-NOV-2001 Inst. S/N:8A09

THERMOGRAPH DATA SUMMARY

STATION NAME:	WESTPORT
STATION NUMBER:	105
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	004355
LATITUDE:	49.77° N
LONGITUDE:	56.63° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	15 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	22-MAY-2000 13:00 GMT
RECOVERY DATE/TIME:	30-OCT-2000 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2000	0.80	145	5.00	147	2.76	1.08	26.9	0.0	227
JUN-2000	-0.40	164	11.00	178	4.95	2.17	148.6	40.3	720
JUL-2000	4.60	190	16.60	201	9.87	2.75	306.1	182.1	744
AUG-2000	6.50	242	17.70	218	13.19	2.80	408.9	284.9	744
SEP-2000	1.50	258	14.80	245	11.58	2.18	347.5	227.5	720
OCT-2000	2.70	294	10.50	278	8.10	1.42	242.1	122.1	711
T.PERIOD	-0.40	164	17.70	218	9.17	3.92	1480.1	856.9	3866



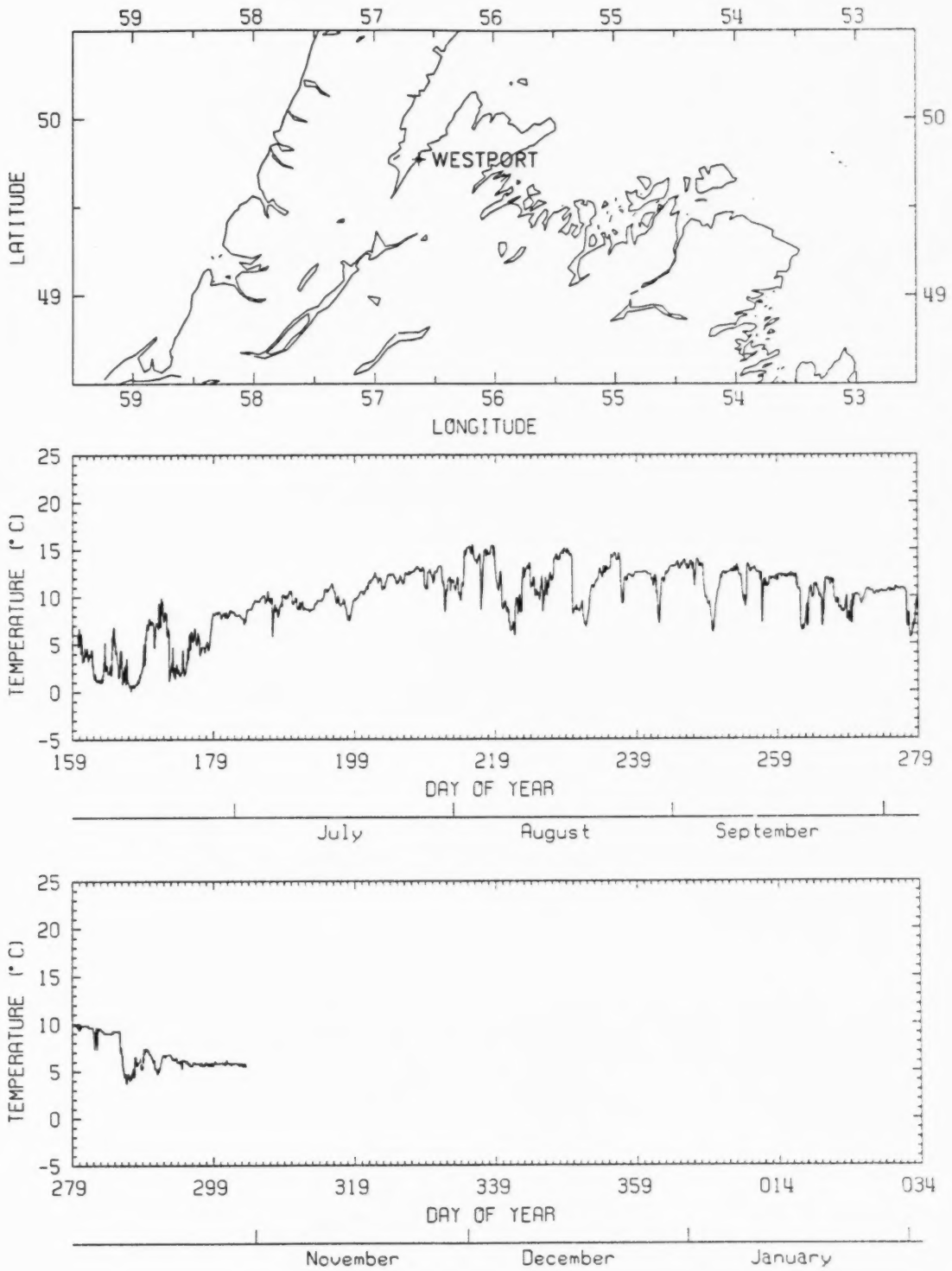
Start:22-MAY-2000 End:30-OCT-2000 Inst. S/N:4355

THERMOGRAPH DATA SUMMARY

STATION NAME:	WESTPORT
STATION NUMBER:	105
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	006442
LATITUDE:	49.77° N
LONGITUDE:	56.63° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	10 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	08-JUN-2001 18:00 GMT
RECOVERY DATE/TIME:	30-OCT-2001 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2001	0.00	167	9.90	171	4.45	2.61	103.4	29.1	534
JUL-2001	5.80	187	13.30	211	10.40	1.58	322.4	198.4	744
AUG-2001	5.90	221	15.50	215	11.89	2.20	368.5	244.5	744
SEP-2001	6.20	249	14.00	247	11.15	1.81	334.6	214.6	720
OCT-2001	3.70	286	11.10	275	7.29	2.00	218.1	98.1	712
T.PERIOD	0.00	167	15.50	215	9.32	3.32	1347.0	784.7	3454



Start: 8-JUN-2001 End: 30-OCT-2001 Inst. S/N: 6442

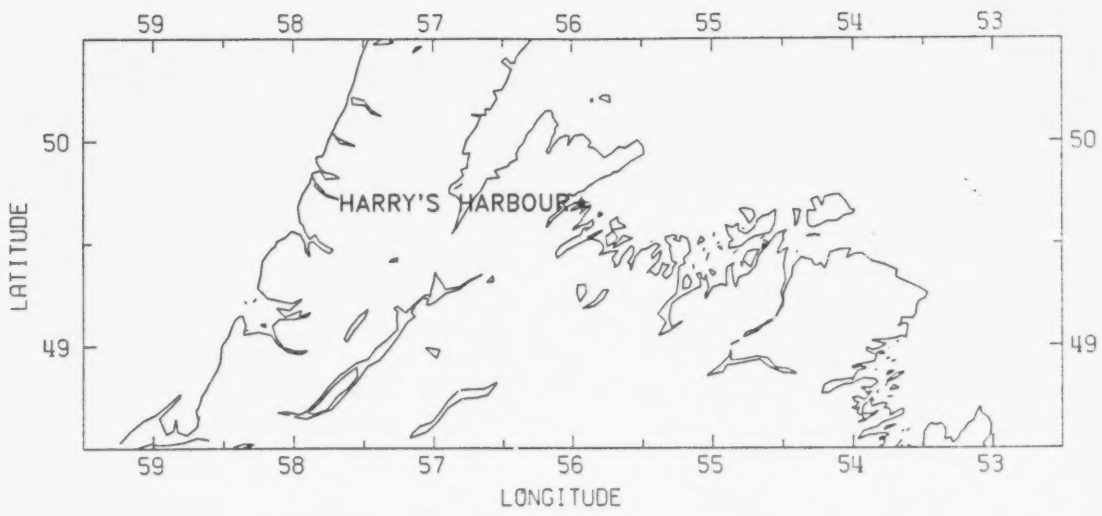
Appendix 5. Time Series Plots and Monthly Statistics from Unit Area 3Kh.

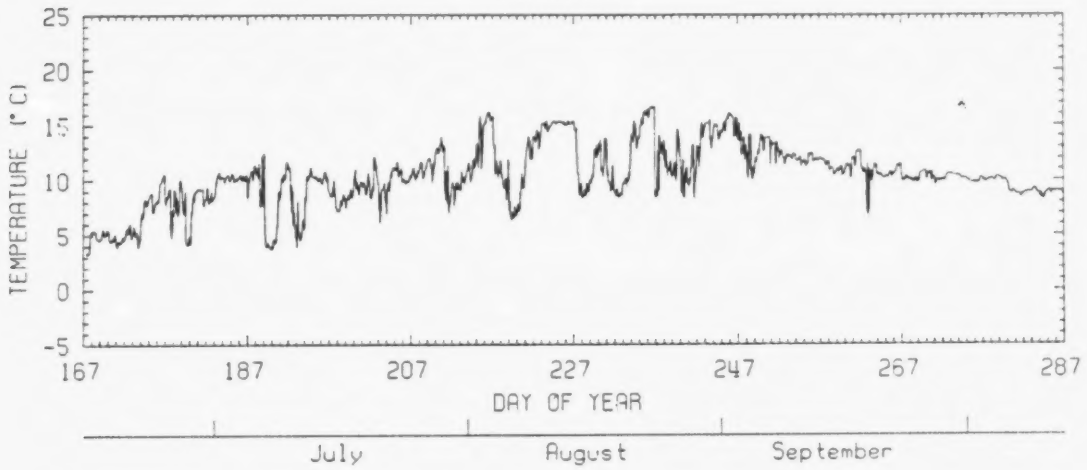
THERMOGRAPH DATA SUMMARY

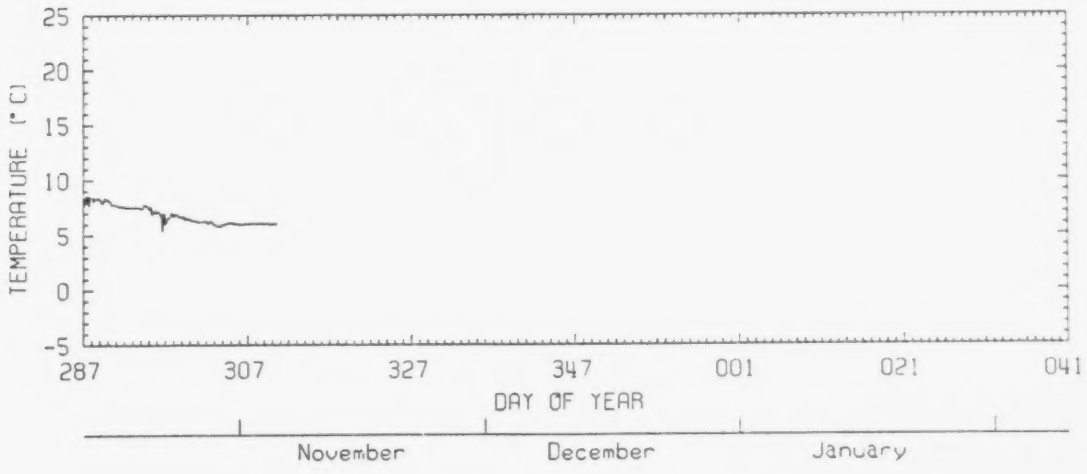
STATION NAME:	HARRY'S HARBOUR
STATION NUMBER:	126
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	006593
LATITUDE:	49.70° N
LONGITUDE:	55.93° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	19 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	15-JUN-2000 11:00 GMT
RECOVERY DATE/TIME:	05-NOV-2000 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2000	3.15	167	10.55	176	6.67	1.94	105.4	41.5	373
JUL-2000	3.75	189	13.90	210	9.44	1.91	292.8	168.8	744
AUG-2000	6.35	219	16.65	236	12.29	2.60	381.1	257.1	744
SEP-2000	6.70	262	16.05	245	11.52	1.51	345.6	225.6	720
OCT-2000	5.35	296	10.30	278	7.92	1.35	245.5	121.5	744
NOV-2000	5.95	306	6.10	307	6.03	0.03	30.1	10.1	109
T.PERIOD	3.15	167	16.65	236	9.76	2.79	1400.6	824.7	3434







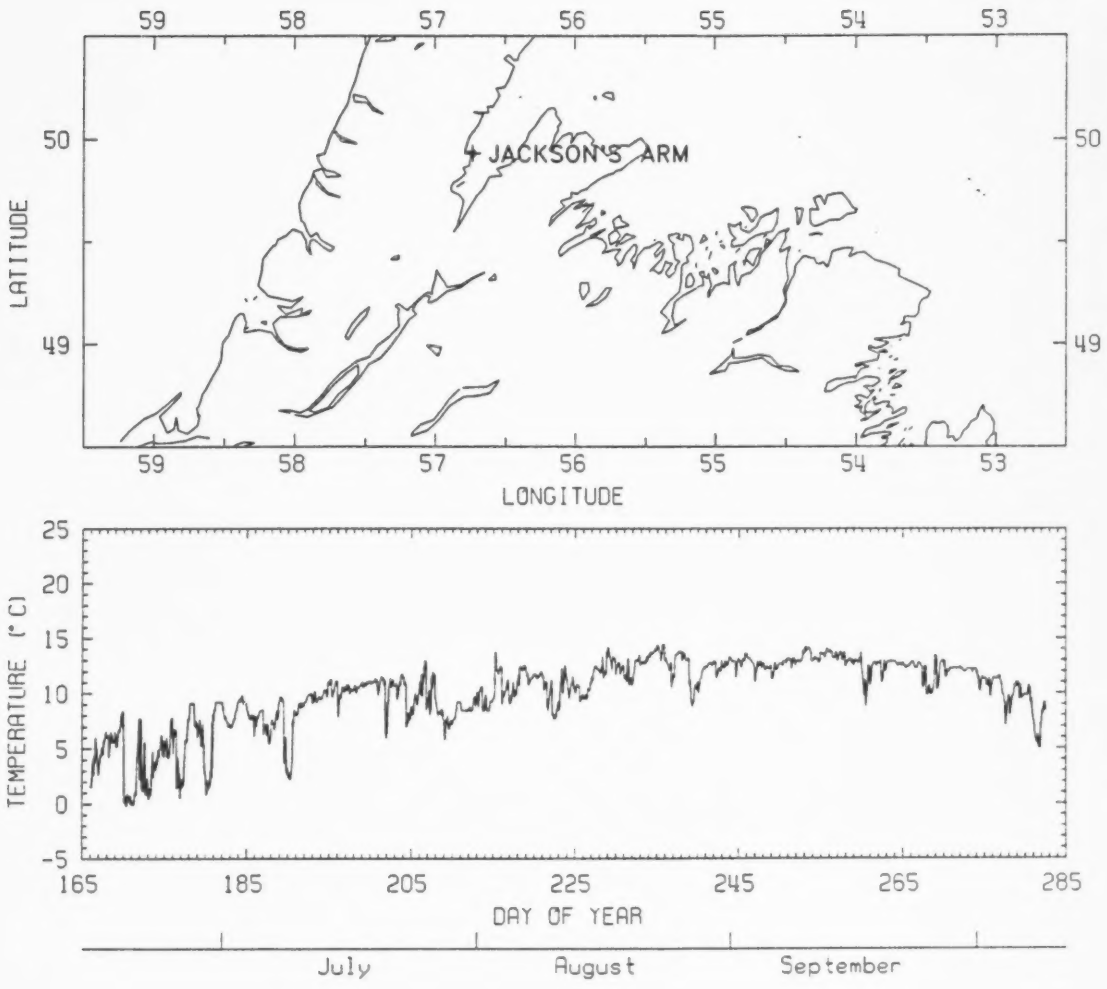
Start:15-JUN-2000 End: 5-NOV-2000 Inst. S/N:6593

THERMOGRAPH DATA SUMMARY

STATION NAME:	JACKSON'S ARM
STATION NUMBER:	258
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	003821
LATITUDE:	49.93° N
LONGITUDE:	56.73° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	10 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	14-JUN-2001 23:00 GMT
RECOVERY DATE/TIME:	09-OCT-2001 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2001	-0.20	170	9.20	181	4.64	2.63	75.9	19.6	385
JUL-2001	2.20	190	12.90	206	9.01	1.78	279.4	155.4	744
AUG-2001	7.60	222	14.40	235	11.55	1.52	358.0	234.0	744
SEP-2001	8.80	260	14.20	253	12.57	0.83	377.0	257.0	720
OCT-2001	5.00	281	12.10	274	9.72	1.71	86.9	50.9	205
T.PERIOD	-0.20	170	14.40	235	10.05	3.06	1177.3	716.9	2798



Start: 14-JUN-2001 End: 9-OCT-2001 Inst. S/N:3821

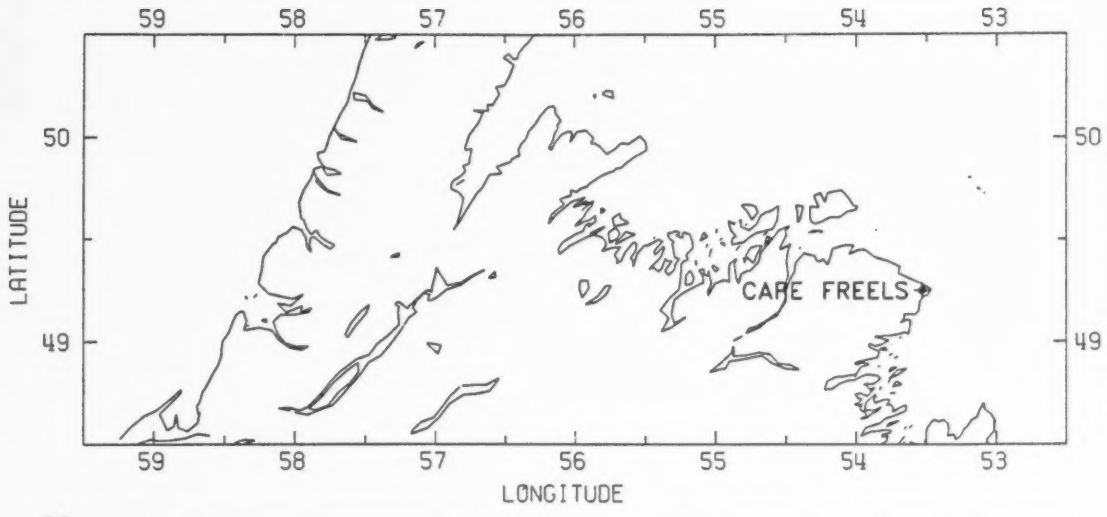
Appendix 6. Time Series Plots and Monthly Statistics from Unit Area 3Ki.

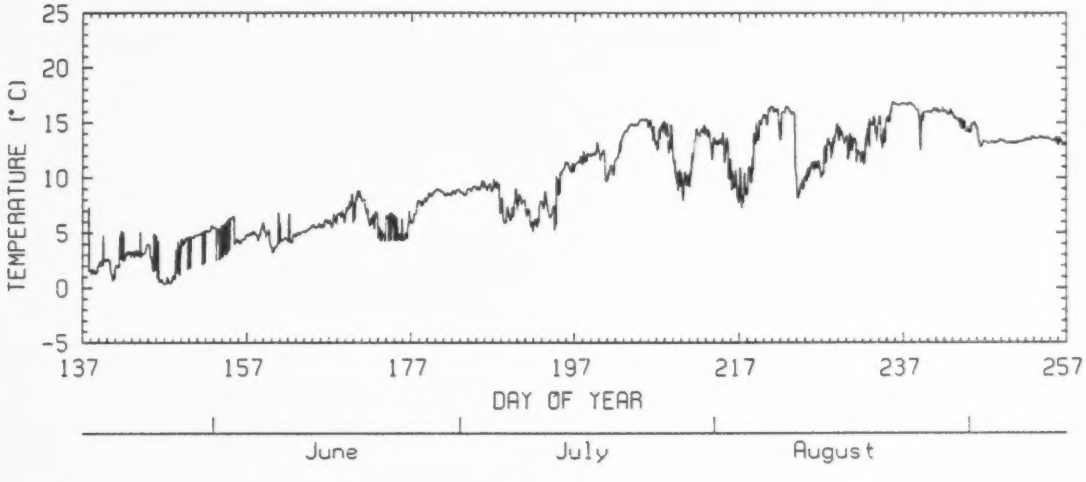
THERMOGRAPH DATA SUMMARY

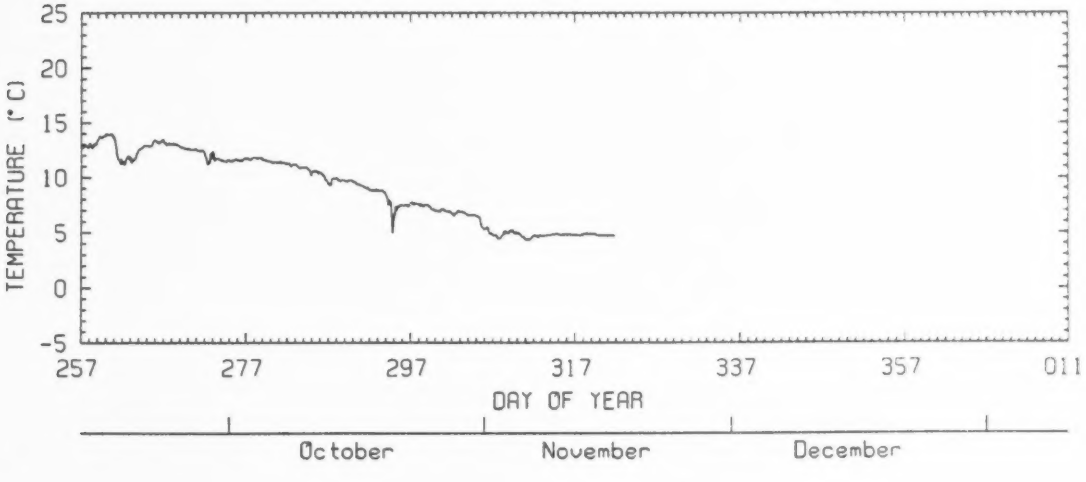
STATION NAME:	CAPE FREELS
STATION NUMBER:	114
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	003266
LATITUDE:	49.25° N
LONGITUDE:	53.53° W
INSTRUMENT DEPTH:	5 m
WATER DEPTH:	30 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	16-MAY-2000 18:00 GMT
RECOVERY DATE/TIME:	16-NOV-2000 19:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2000	0.35	146	7.30	137	2.91	1.53	46.3	2.5	366
JUN-2000	2.50	153	9.00	180	5.99	1.59	179.8	59.8	720
JUL-2000	5.10	191	15.40	205	10.75	2.79	333.3	209.3	744
AUG-2000	7.25	217	16.90	235	13.82	2.43	428.5	304.5	744
SEP-2000	11.10	262	15.05	245	12.94	0.77	388.3	268.3	720
OCT-2000	4.95	294	11.80	277	9.14	1.91	283.3	159.3	744
NOV-2000	4.35	311	5.50	306	4.79	0.19	76.7	12.7	380
T.PERIOD	0.35	146	16.90	235	9.42	4.06	1736.3	1016.5	4418







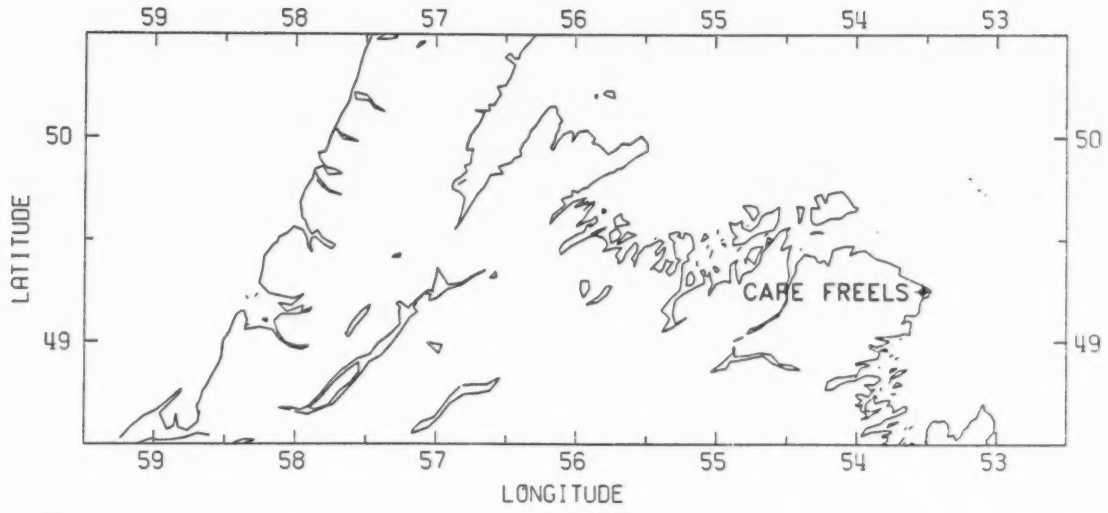
Start: 16-MAY-2000 End: 16-NOV-2000 Inst. S/N: 3266

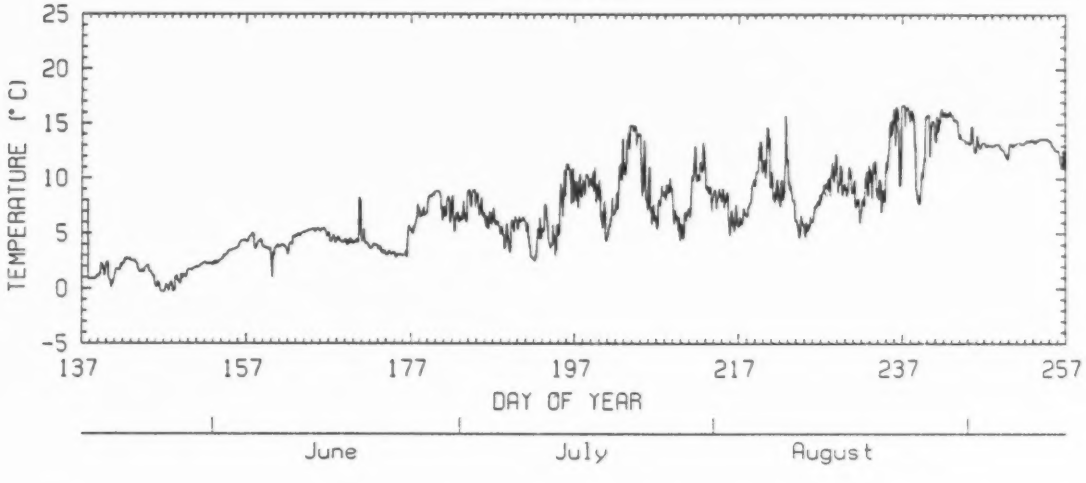
THERMOGRAPH DATA SUMMARY

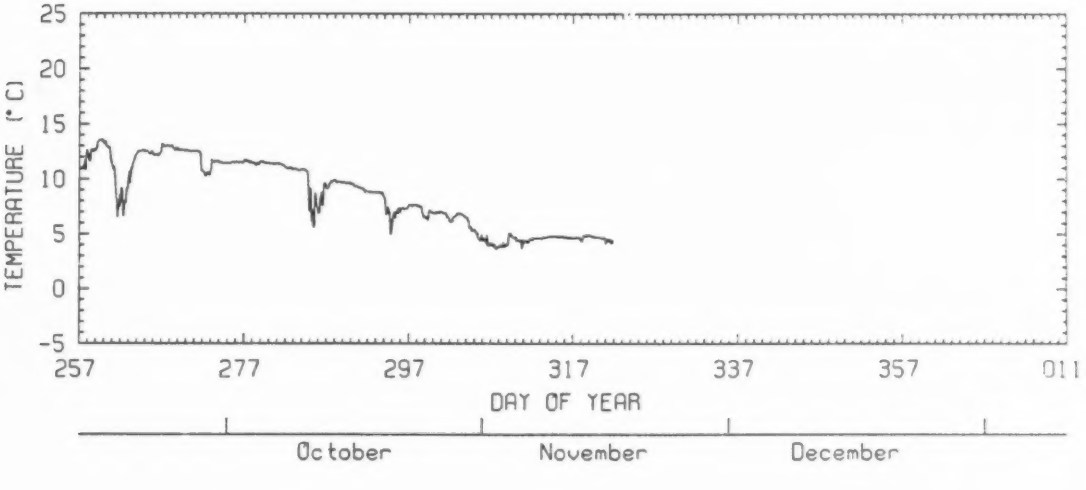
STATION NAME:	CAPE FREELS
STATION NUMBER:	114
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007946
LATITUDE:	49.25° N
LONGITUDE:	53.53° W
INSTRUMENT DEPTH:	15 m
WATER DEPTH:	30 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	16-MAY-2000 18:00 GMT
RECOVERY DATE/TIME:	16-NOV-2000 19:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2000	-0.30	146	8.05	137	1.43	0.89	23.4	0.0	366
JUN-2000	1.00	160	8.80	179	4.68	1.55	140.5	27.2	720
JUL-2000	2.50	192	14.85	203	7.79	2.68	241.5	117.5	744
AUG-2000	4.60	224	16.70	236	10.40	3.34	322.4	198.4	744
SEP-2000	6.50	261	14.80	245	12.30	1.30	369.0	249.0	720
OCT-2000	4.40	305	11.75	277	8.82	2.05	273.3	149.3	744
NOV-2000	3.60	307	5.10	309	4.53	0.31	72.4	8.6	380
T.PERIOD	-0.30	146	16.70	236	7.82	3.87	1442.6	750.1	4418







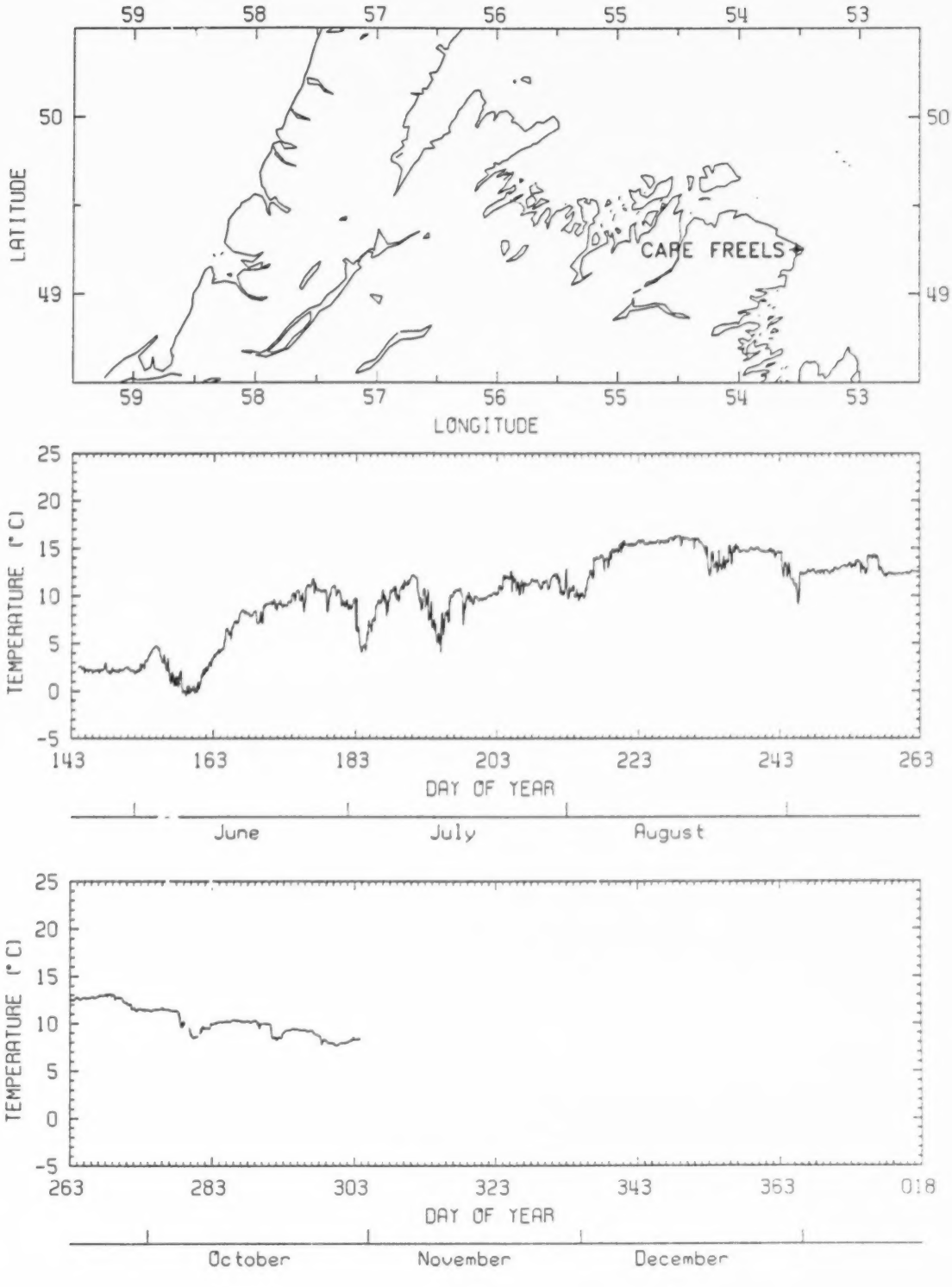
Start: 16-MAY-2000 End: 16-NOV-2000 Inst. S/N: 7946

THERMOGRAPH DATA SUMMARY

STATION NAME:	CAPE FREELS
STATION NUMBER:	114
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	006741
LATITUDE:	49.25° N
LONGITUDE:	53.53° W
INSTRUMENT DEPTH:	5 m
WATER DEPTH:	30 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	23-MAY-2001 22:00 GMT
RECOVERY DATE/TIME:	30-OCT-2001 18:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2001	1.80	148	3.00	147	2.23	0.20	20.3	0.0	194
JUN-2001	-0.60	159	11.85	176	6.25	3.64	187.6	89.4	720
JUL-2001	4.05	183	12.85	212	9.80	1.90	303.8	179.8	744
AUG-2001	9.45	214	16.35	229	14.37	1.65	445.6	321.6	744
SEP-2001	9.10	245	14.30	256	12.57	0.67	377.2	257.2	720
OCT-2001	7.65	300	11.70	275	9.56	1.09	286.6	166.6	715
T.PERIOD	-0.60	159	16.35	229	10.11	3.83	1621.2	1014.6	3837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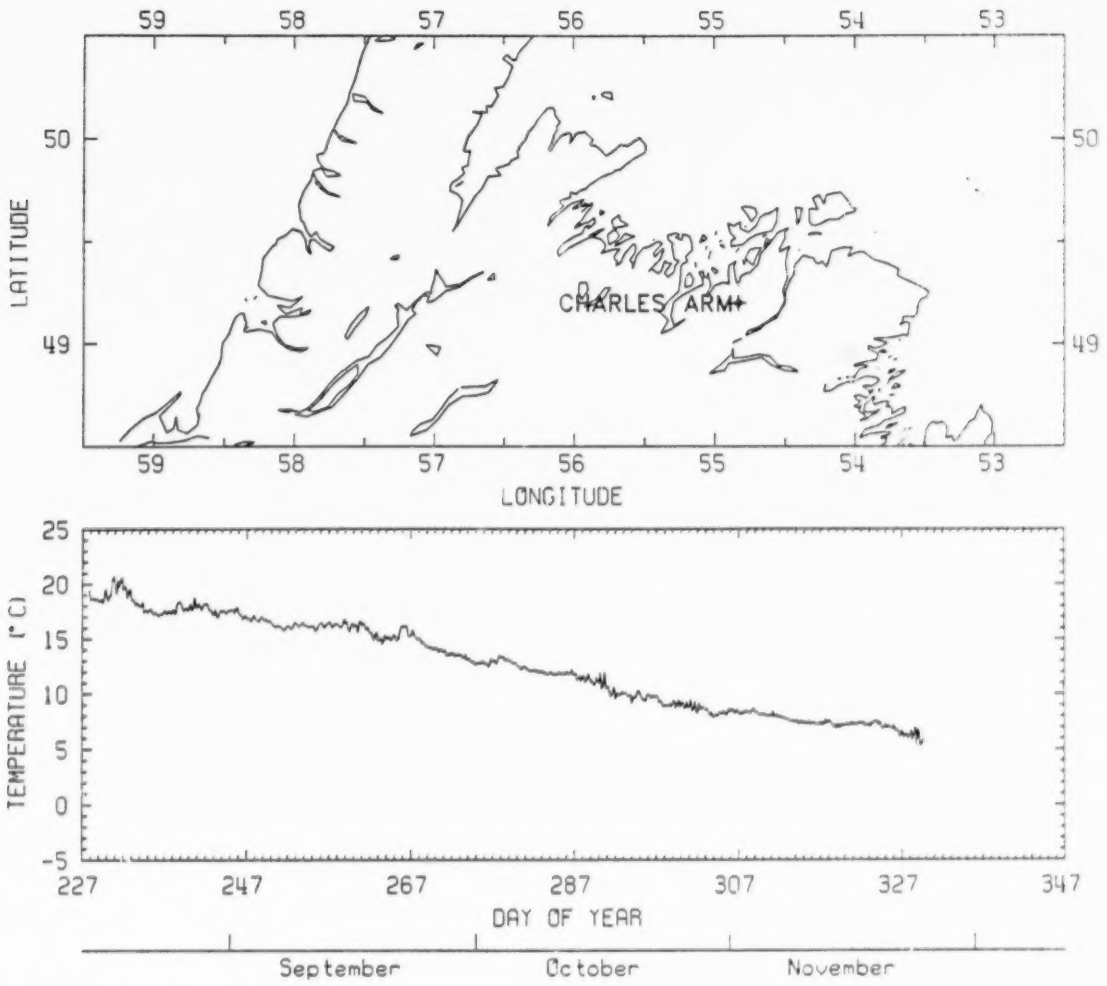
58
57
56
55
54
53
50
49
LATITUDE
CAPE FREELS
LONGITUDE
TEMPERATURE (° C)
25
20
15
10
5
0
-5
143
163
183
203
223
243
263
DAY OF YEAR
June
July
August
TEMPERATURE (° C)
263
283
303
323
343
363
018
DAY OF YEAR
October
November
December
Start:23-MAY-2001
End:30-OCT-2001
Inst. S/N:6741

THERMOGRAPH DATA SUMMARY

STATION NAME:	CHARLES ARM
STATION NUMBER:	121
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	006742
LATITUDE:	49.20° N
LONGITUDE:	54.83° W
INSTRUMENT DEPTH:	2 m
WATER DEPTH:	2 m
SAMPLE INTERVAL:	240 min.
DEPLOYMENT DATE/TIME:	14-AUG-2000 20:00 GMT
RECOVERY DATE/TIME:	24-NOV-2000 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
AUG-2000	16.90	243	20.70	230	18.16	0.87	328.0	256.0	103
SEP-2000	12.70	274	17.90	245	15.57	1.19	467.2	347.2	180
OCT-2000	7.80	304	13.50	277	10.71	1.62	332.0	208.0	186
NOV-2000	5.35	328	8.70	308	7.41	0.68	177.5	81.5	143
T.PERIOD	5.35	328	20.70	230	12.62	4.08	1304.6	892.6	612



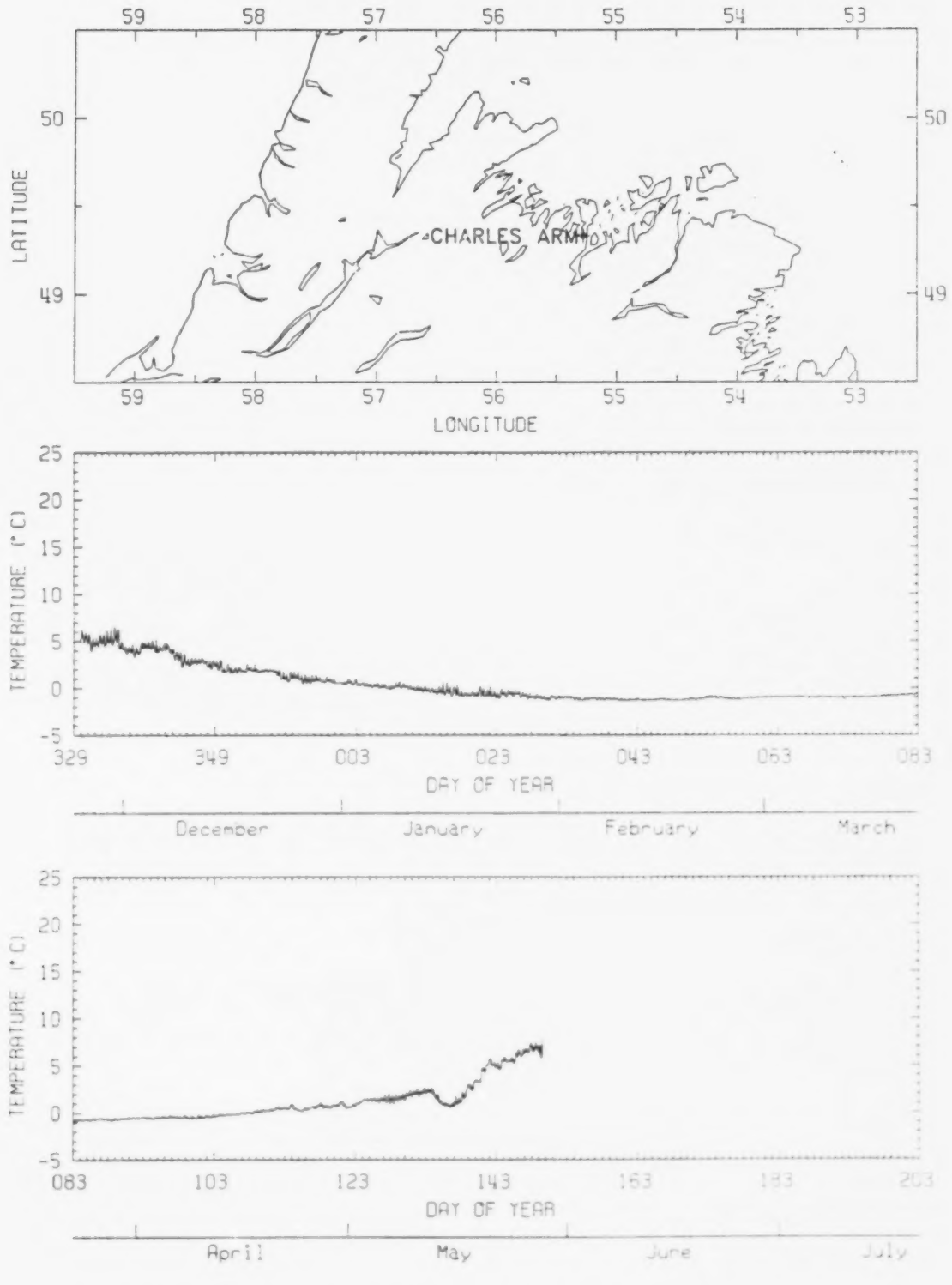
Start: 14-AUG-2000 End: 24-NOV-2000 Inst. S/N:6742

THERMOGRAPH DATA SUMMARY

STATION NAME:	CHARLES ARM
STATION NUMBER:	121
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	006788
LATITUDE:	49.33° N
LONGITUDE:	55.27° W
INSTRUMENT DEPTH:	3 m
WATER DEPTH:	10 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	24-NOV-2000 21:00 GMT
RECOVERY DATE/TIME:	29-MAY-2001 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
NOV-2000	3.90	331	6.55	334	5.11	0.55	35.9	7.9	147
DEC-2000	0.45	361	5.15	340	2.41	1.24	72.2	1.6	720
JAN-2001	-1.30	30	1.00	1	-0.32	0.53	2.8	0.0	744
FEB-2001	-1.35	35	-0.85	32	-1.15	0.11	0.0	0.0	672
MAR-2001	-1.15	72	-0.50	86	-0.85	0.14	0.0	0.0	744
APR-2001	-0.60	91	1.25	120	0.00	0.47	6.2	0.0	720
MAY-2001	0.50	121	7.80	149	2.89	2.06	85.3	16.7	685
T.PERIOD	-1.35	35	7.80	149	0.63	2.01	202.5	26.2	4432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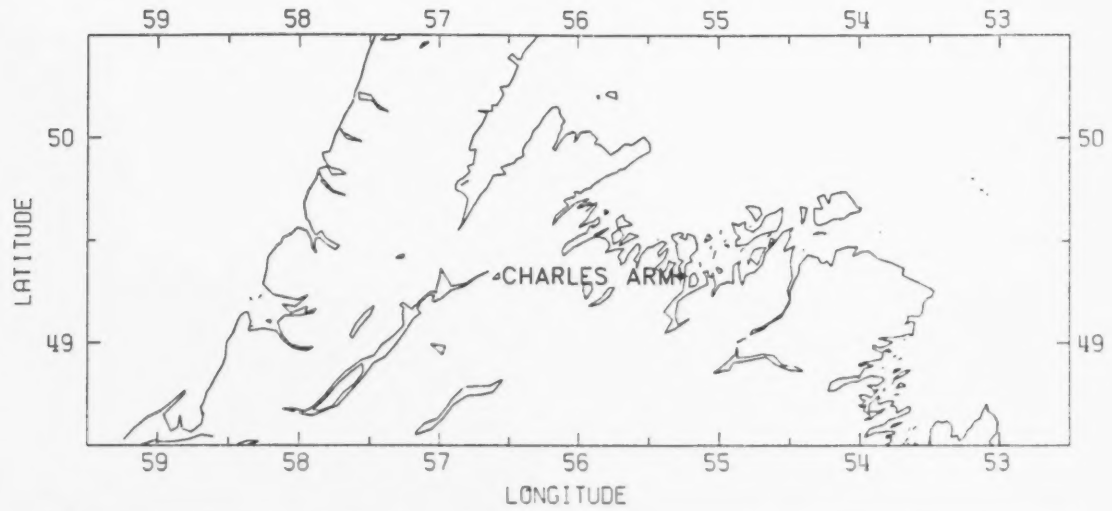
58
57
56
55
54
53
50
49
LATITUDE
CHARLES ARM
LONGITUDE
TEMPERATURE (°C)
25
20
15
10
5
0
-5
329
349
003
023
043
063
083
DAY OF YEAR
December
January
February
March
TEMPERATURE (°C)
083
103
123
143
163
183
203
DAY OF YEAR
April
May
June
July
Start:24-NOV-2000
End:29-MAY-2001
Inst. S/N:6788

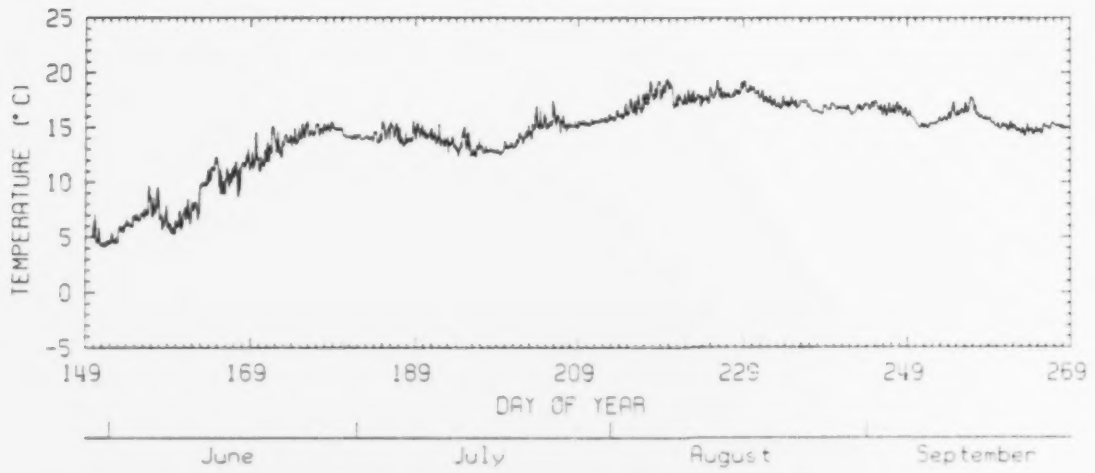
THERMOGRAPH DATA SUMMARY

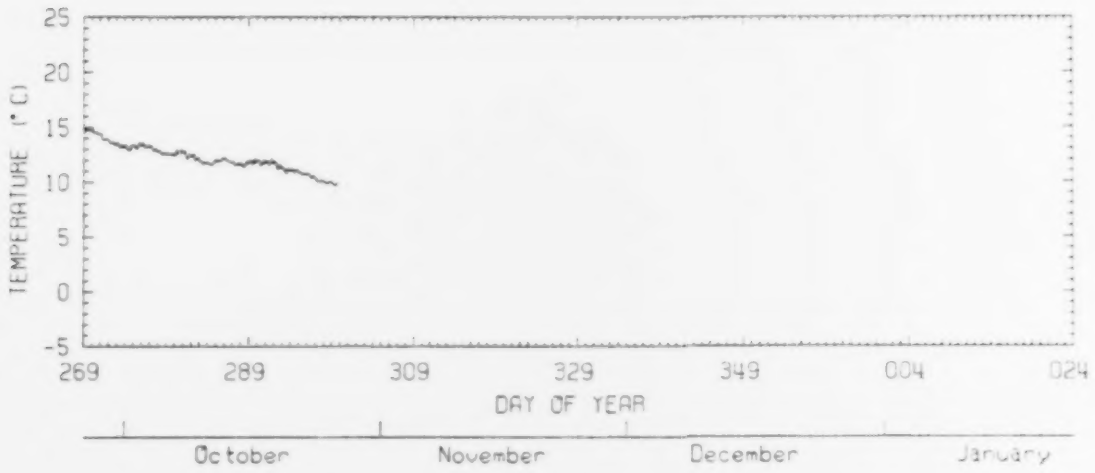
STATION NAME:	CHARLES ARM
STATION NUMBER:	121
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	008956
LATITUDE:	49.33° N
LONGITUDE:	55.27° W
INSTRUMENT DEPTH:	3 m
WATER DEPTH:	10 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	29-MAY-2001 20:00 GMT
RECOVERY DATE/TIME:	26-OCT-2001 18:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2001	4.10	151	7.10	150	4.72	0.62	14.8	2.8	52
JUN-2001	4.40	152	15.60	175	10.61	3.41	318.4	198.4	720
JUL-2001	12.30	194	17.45	205	14.30	1.00	443.2	319.2	744
AUG-2001	15.50	213	19.40	219	17.38	0.81	538.7	414.7	744
SEP-2001	13.10	273	17.75	256	15.45	1.01	463.5	343.5	720
OCT-2001	9.65	299	13.65	275	11.82	0.97	206.8	202.8	619
T.PERIOD	4.10	151	19.40	219	13.86	3.19	2085.5	1481.5	3599







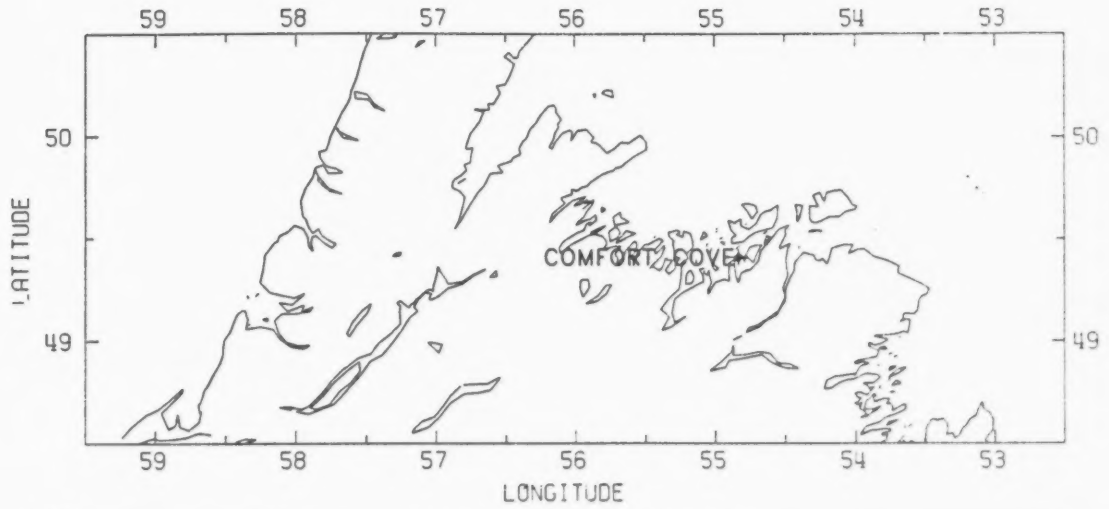
Start:29-MAY-2001 End:26-OCT-2001 Inst. S/N:8956

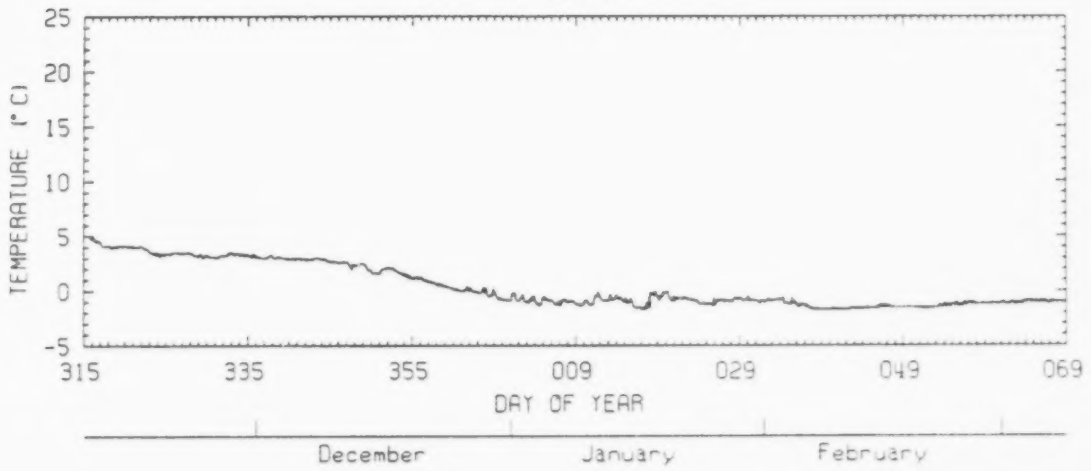
THERMOGRAPH DATA SUMMARY

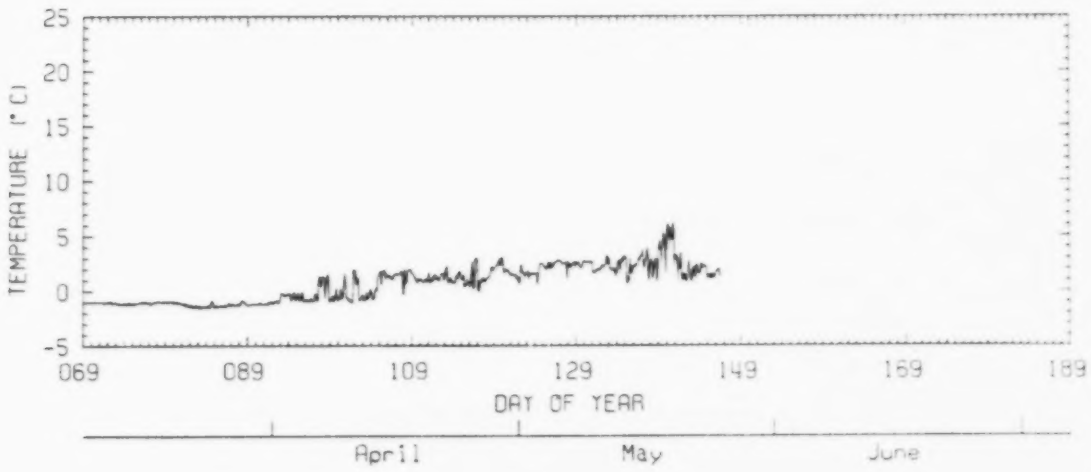
STATION NAME:	COMFORT COVE
STATION NUMBER:	118
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	003826
LATITUDE:	49.41° N
LONGITUDE:	54.83° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	11-NOV-1999 15:00 GMT
RECOVERY DATE/TIME:	25-MAY-2000 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
NOV-1999	3.00	329	5.00	315	3.64	0.46	73.7	1.9	465
DEC-1999	-0.80	365	3.40	335	1.73	1.22	54.5	0.0	744
JAN-2000	-1.70	17	-0.10	11	-0.90	0.31	0.0	0.0	744
FEB-2000	-1.70	37	-0.60	35	-1.39	0.26	0.0	0.0	696
MAR-2000	-1.50	81	-0.80	88	-1.13	0.16	0.0	0.0	744
APR-2000	-1.10	92	3.10	120	0.64	1.05	24.2	0.0	720
MAY-2000	0.60	122	6.20	140	2.32	0.94	57.7	1.2	590
T.PERIOD	-1.70	17	6.20	140	0.50	1.86	210.1	3.1	4703







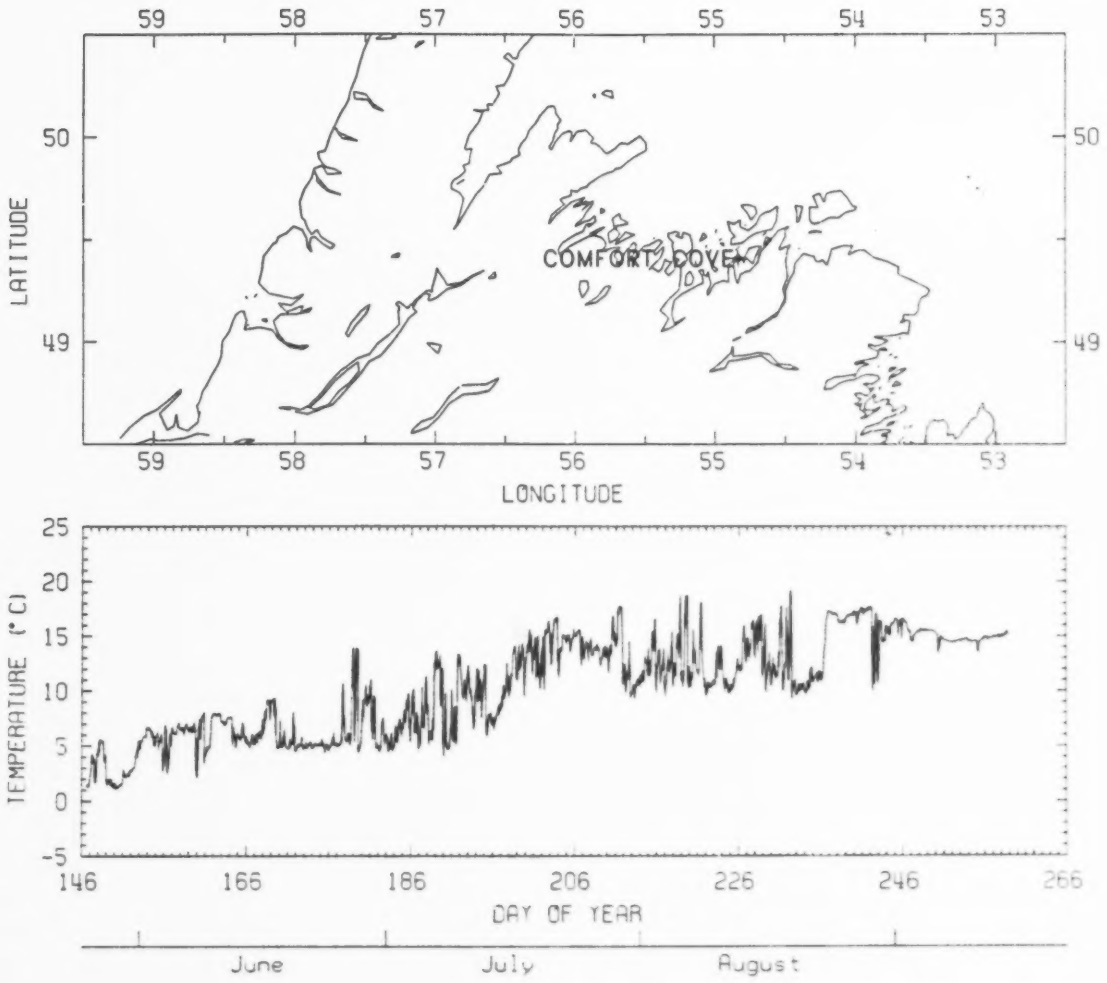
Start:11-NOV-1999 End:25-MAY-2000 Inst. S/N:3826

THERMOGRAPH DATA SUMMARY

STATION NAME:	COMFORT COVE
STATION NUMBER:	118
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	004360
LATITUDE:	49.41° N
LONGITUDE:	54.83° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	25-MAY-2000 14:00 GMT
RECOVERY DATE/TIME:	14-SEP-2000 20:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2000	1.10	150	5.65	148	2.74	1.34	18.4	0.7	154
JUN-2000	2.10	160	13.95	178	6.22	1.67	186.6	66.6	720
JUL-2000	4.05	190	17.70	211	10.99	3.38	340.5	216.5	744
AUG-2000	9.25	232	19.20	232	13.41	2.58	415.8	291.8	744
SEP-2000	13.45	250	16.60	245	15.03	0.59	210.4	154.4	333
T.PERIOD	1.10	150	19.20	232	10.41	4.38	1171.8	730.1	2695



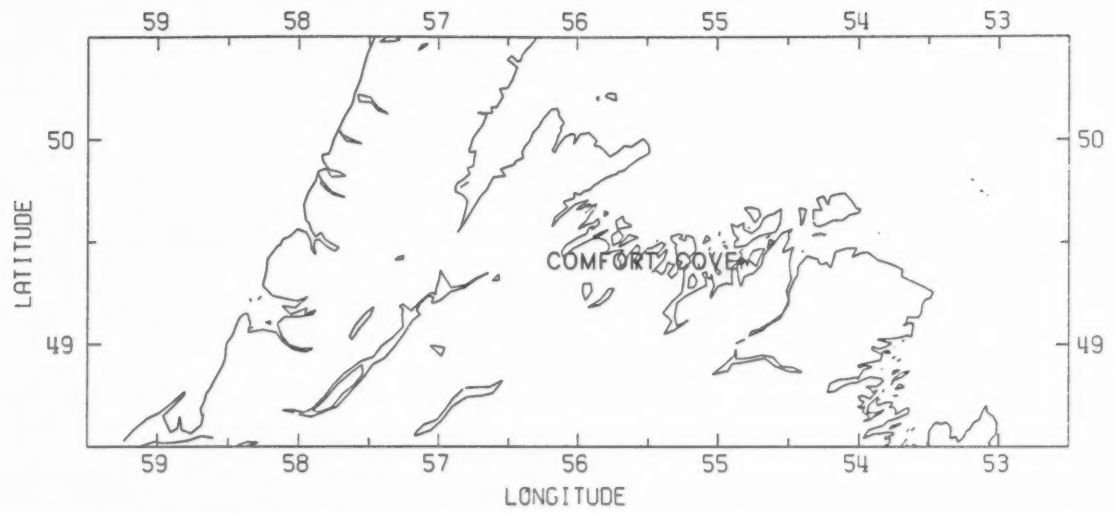
Start: 25-MAY-2000 End: 14-SEP-2000 Inst. S/N:4360

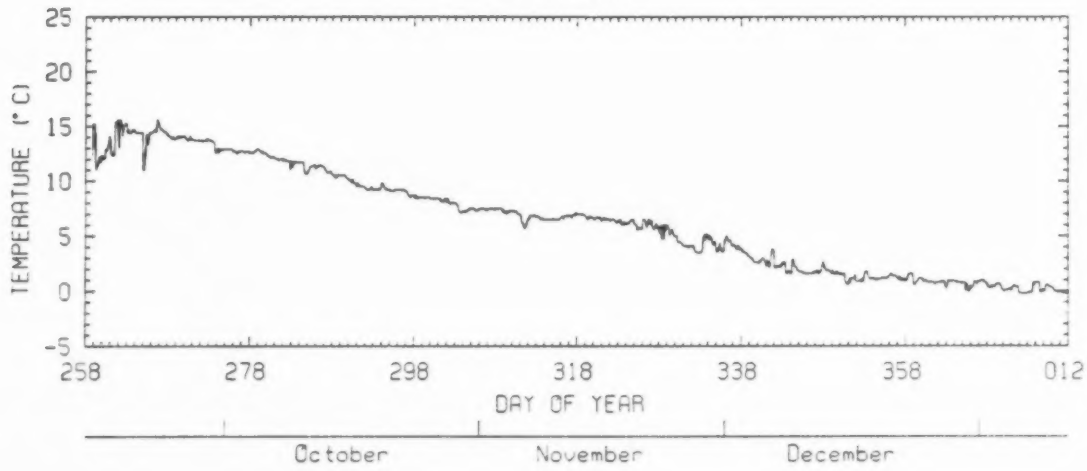
THERMOGRAPH DATA SUMMARY

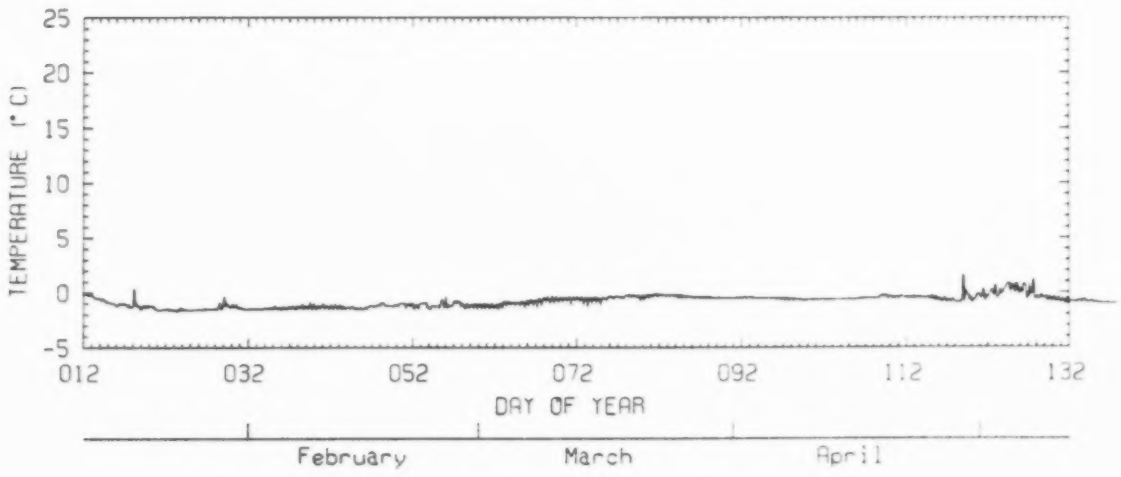
STATION NAME:	COMFORT COVE
STATION NUMBER:	118
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	003820
LATITUDE:	49.41° N
LONGITUDE:	54.83° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	14-SEP-2000 21:00 GMT
RECOVERY DATE/TIME:	23-MAY-2001 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
SEP-2000	11.00	259	15.60	261	13.81	0.95	235.1	167.1	387
OCT-2000	7.10	303	12.90	275	10.16	1.76	315.1	191.1	744
NOV-2000	3.50	332	7.50	306	6.09	1.11	182.7	63.2	720
DEC-2000	-0.10	365	5.00	336	1.70	1.03	52.7	0.6	744
JAN-2001	-1.70	23	1.00	1	-0.68	0.81	3.2	0.0	744
FEB-2001	-1.50	32	-0.30	56	-1.25	0.20	0.0	0.0	672
MAR-2001	-1.50	60	-0.10	81	-0.59	0.31	0.0	0.0	744
APR-2001	-0.90	117	1.60	118	-0.52	0.21	0.0	0.0	720
MAY-2001	-1.00	135	2.60	143	-0.20	0.73	5.2	0.0	542
T.PERIOD	-1.70	23	15.60	261	2.71	4.87	794.0	421.9	6017







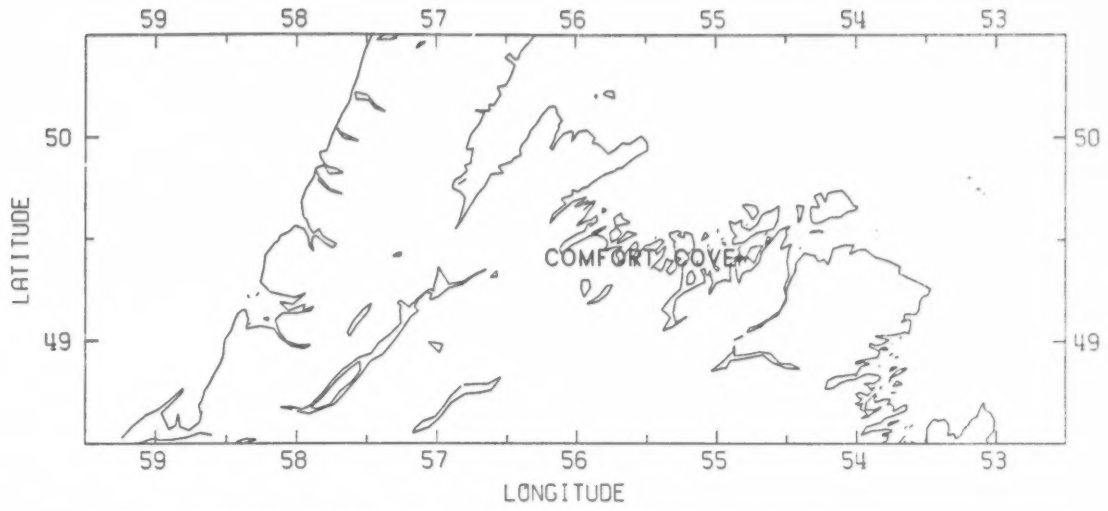
Start: 14-SEP-2000 End: 23-MAY-2001 Inst. S/N: 3820

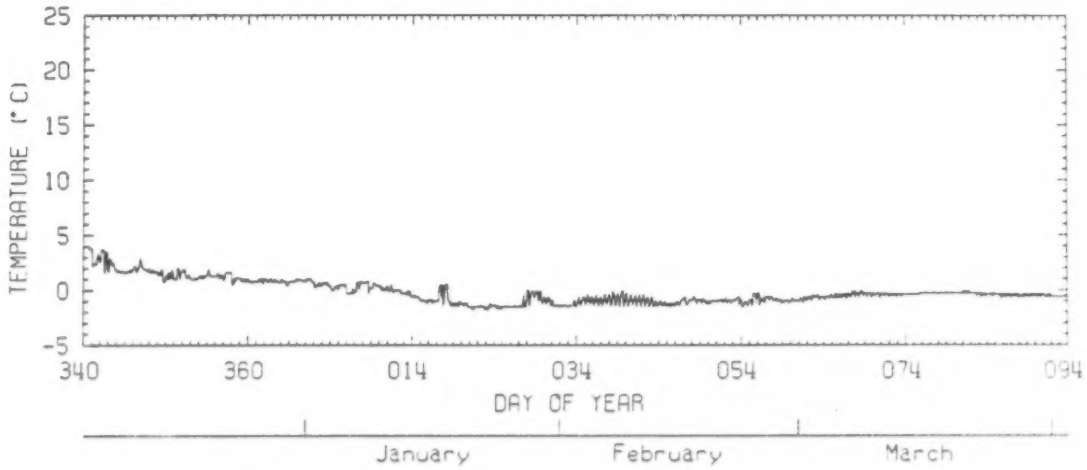
THERMOGRAPH DATA SUMMARY

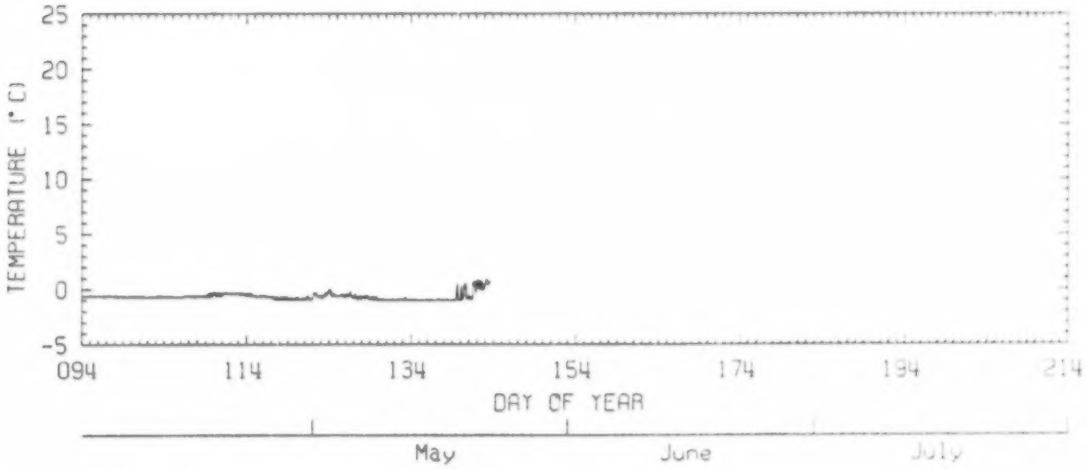
STATION NAME:	COMFORT COVE
STATION NUMBER:	118
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	006441
LATITUDE:	49.41° N
LONGITUDE:	54.83° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	05-DEC-2000 16:00 GMT
RECOVERY DATE/TIME:	23-MAY-2001 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
DEC-2000	0.40	364	4.00	340	1.47	0.70	39.8	0.0	608
JAN-2001	-1.70	21	1.00	1	-0.52	0.82	4.2	0.0	744
FEB-2001	-1.50	32	-0.10	38	-1.00	0.30	0.0	0.0	672
MAR-2001	-1.20	61	-0.10	67	-0.47	0.19	0.0	0.0	744
APR-2001	-1.00	120	-0.30	109	-0.63	0.14	0.0	0.0	720
MAY-2001	-1.00	121	1.00	143	-0.68	0.45	0.9	0.0	542
T.PERIOD	-1.70	21	4.00	340	-0.33	0.93	44.9	0.0	4030







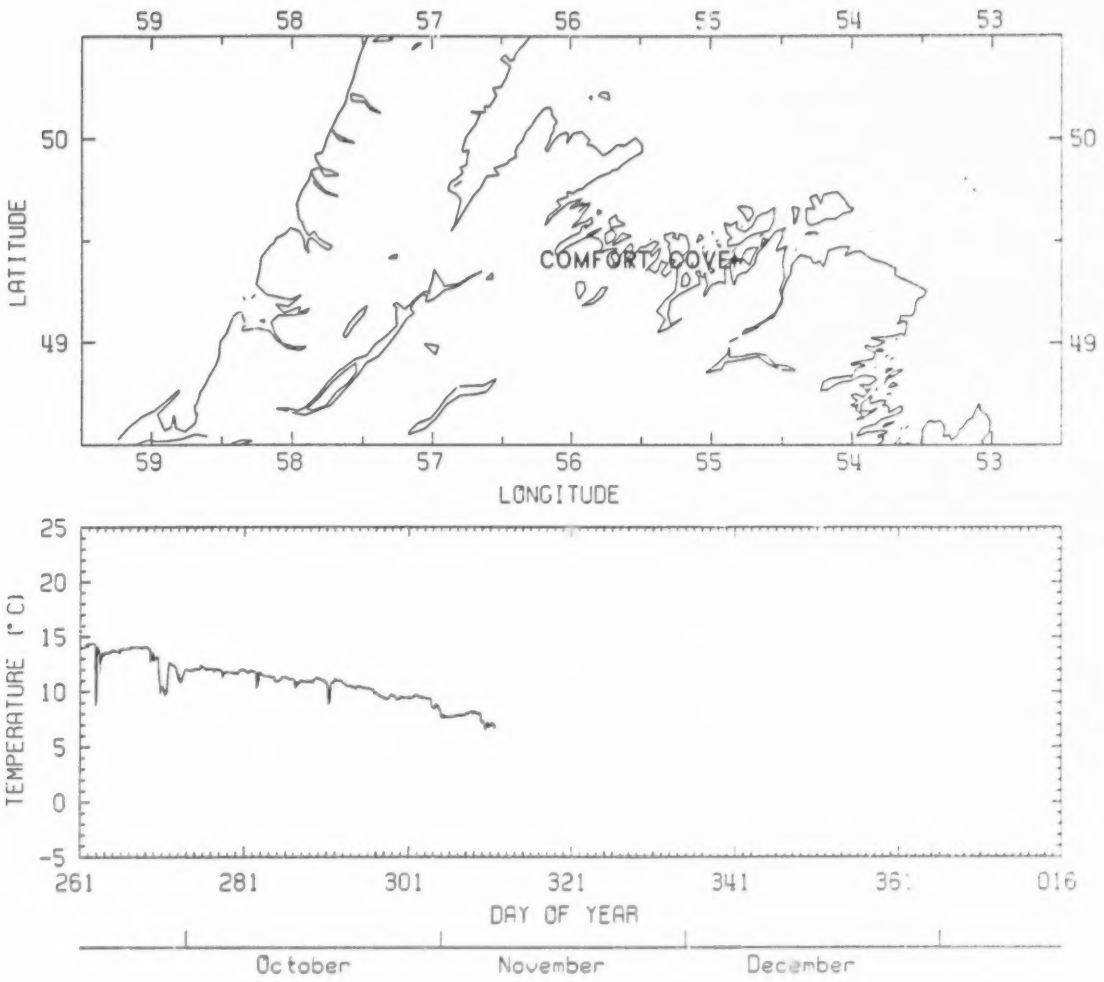
Start: 5-DEC-2000 End:23-MAY-2001 Inst. S/N:6441

THERMOGRAPH DATA SUMMARY

STATION NAME:	COMFORT COVE
STATION NUMBER:	118
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	006641
LATITUDE:	49.41° N
LONGITUDE:	54.83° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	18-SEP-2001 14:00 GMT
RECOVERY DATE/TIME:	07-NOV-2001 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
SEP-2001	8.70	262	14.40	262	13.05	1.29	170.3	118.3	298
OCT-2001	7.80	304	12.45	275	10.72	1.01	332.4	208.4	744
NOV-2001	6.50	310	8.20	308	7.62	0.43	53.1	25.1	159
T.PERIOD	6.50	310	14.40	262	10.89	1.91	555.8	351.8	1201



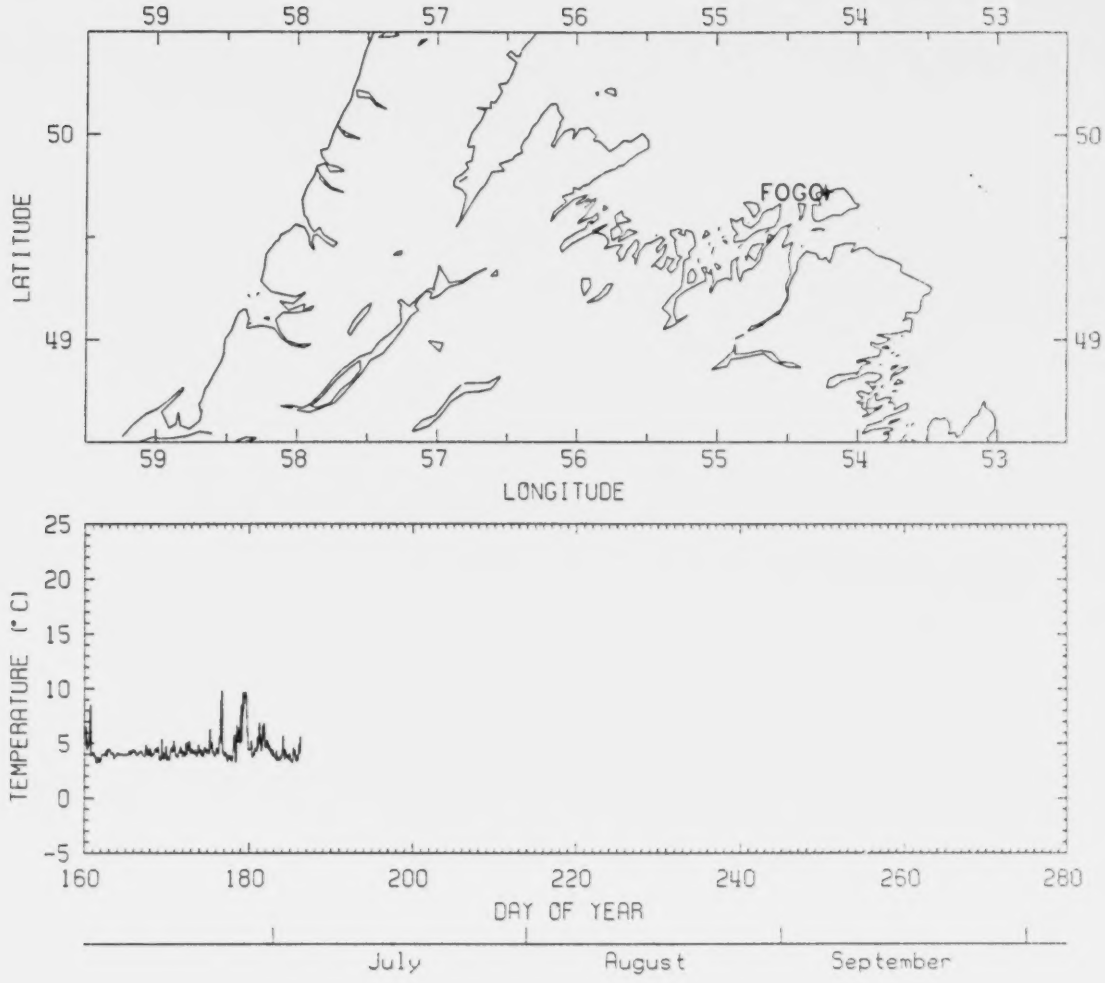
Start: 18-SEP-2001 End: 7-NOV-2001 Inst. S/N:6641

THERMOGRAPH DATA SUMMARY

STATION NAME:	FOGO
STATION NUMBER:	269
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	005471
LATITUDE:	49.72° N
LONGITUDE:	54.23° W
INSTRUMENT DEPTH:	16 m
WATER DEPTH:	18 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	08-JUN-2000 05:00 GMT
RECOVERY DATE/TIME:	04-JUL-2000 07:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2000	3.15	161	9.80	176	4.48	1.10	103.3	12.0	547
JUL-2000	3.20	185	5.75	184	3.89	0.49	16.0	0.6	80
T.PERIOD	3.15	161	9.80	176	4.41	1.06	119.3	12.6	627



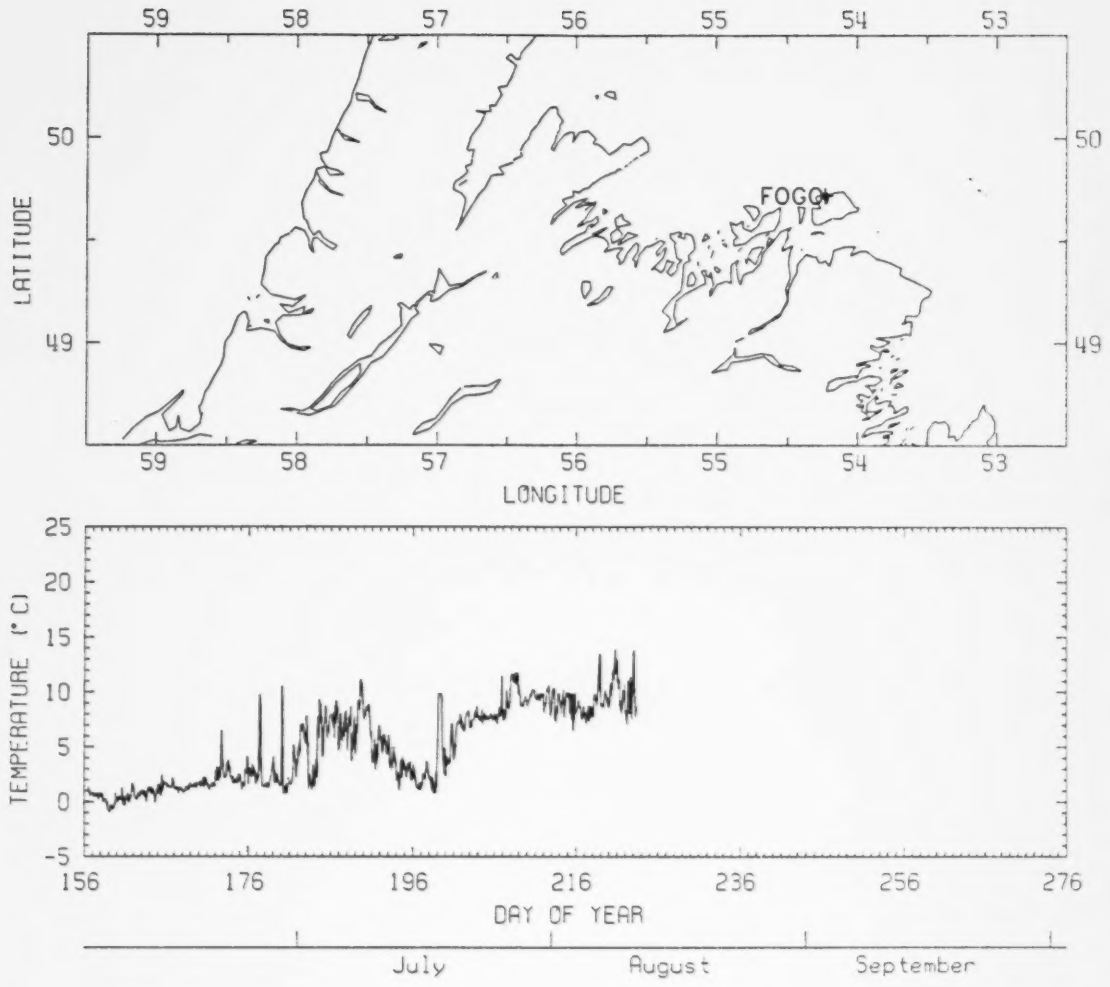
Start: 8-JUN-2000 End: 4-JUL-2000 Inst. S/N:5471

THERMOGRAPH DATA SUMMARY

STATION NAME:	FOGO
STATION NUMBER:	269
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	006431
LATITUDE:	49.72° N
LONGITUDE:	54.23° W
INSTRUMENT DEPTH:	18 m
WATER DEPTH:	20 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	05-JUN-2001 12:00 GMT
RECOVERY DATE/TIME:	11-AUG-2001 09:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2001	-0.90	159	10.50	180	1.53	1.32	39.7	0.0	612
JUL-2001	0.80	198	11.70	208	6.36	2.75	197.1	82.4	744
AUG-2001	6.50	215	13.90	220	9.27	1.38	102.4	58.4	250
T.PERIOD	-0.90	159	13.90	220	4.97	3.57	339.2	140.8	1606



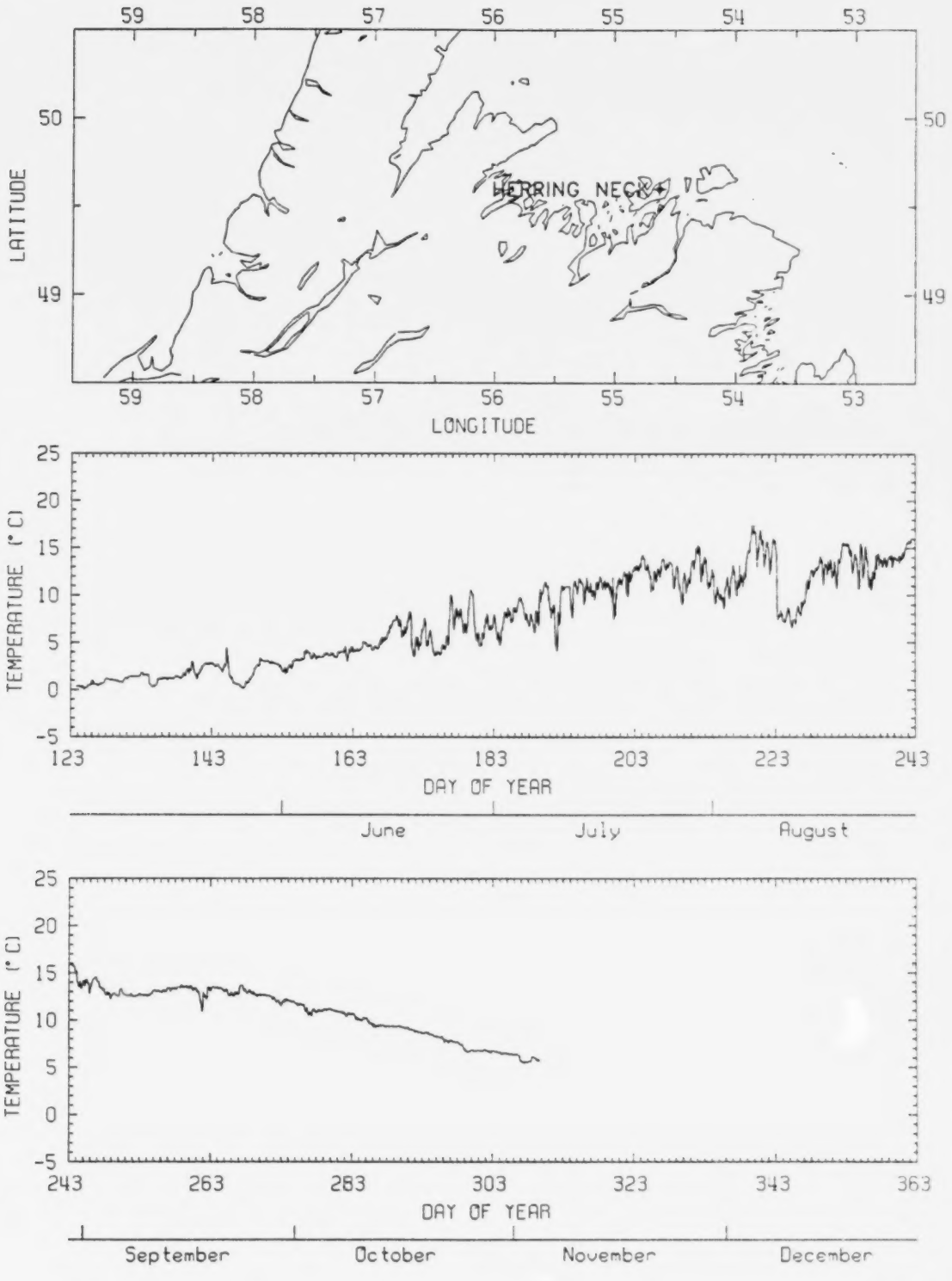
Start: 5-JUN-2001 End: 11-AUG-2001 Inst. S/N:6431

THERMOGRAPH DATA SUMMARY

STATION NAME:	HERRING NECK
STATION NUMBER:	125
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007930
LATITUDE:	49.60° N
LONGITUDE:	54.63° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	10 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	02-MAY-2000 19:00 GMT
RECOVERY DATE/TIME:	04-NOV-2000 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2000	0.00	124	4.40	145	1.49	0.86	43.9	0.0	701
JUN-2000	1.65	153	10.55	179	5.09	1.78	152.6	38.5	720
JUL-2000	4.10	191	15.30	211	10.57	2.23	327.5	203.5	744
AUG-2000	6.60	225	17.40	219	12.69	2.50	393.4	269.4	744
SEP-2000	10.90	261	14.60	246	12.94	0.57	388.2	268.2	720
OCT-2000	6.35	304	11.80	275	8.96	1.65	277.7	153.7	744
NOV-2000	5.55	307	6.40	306	5.88	0.30	23.5	7.5	89
T.PERIOD	0.00	124	17.40	219	8.63	4.42	1606.9	940.8	4462



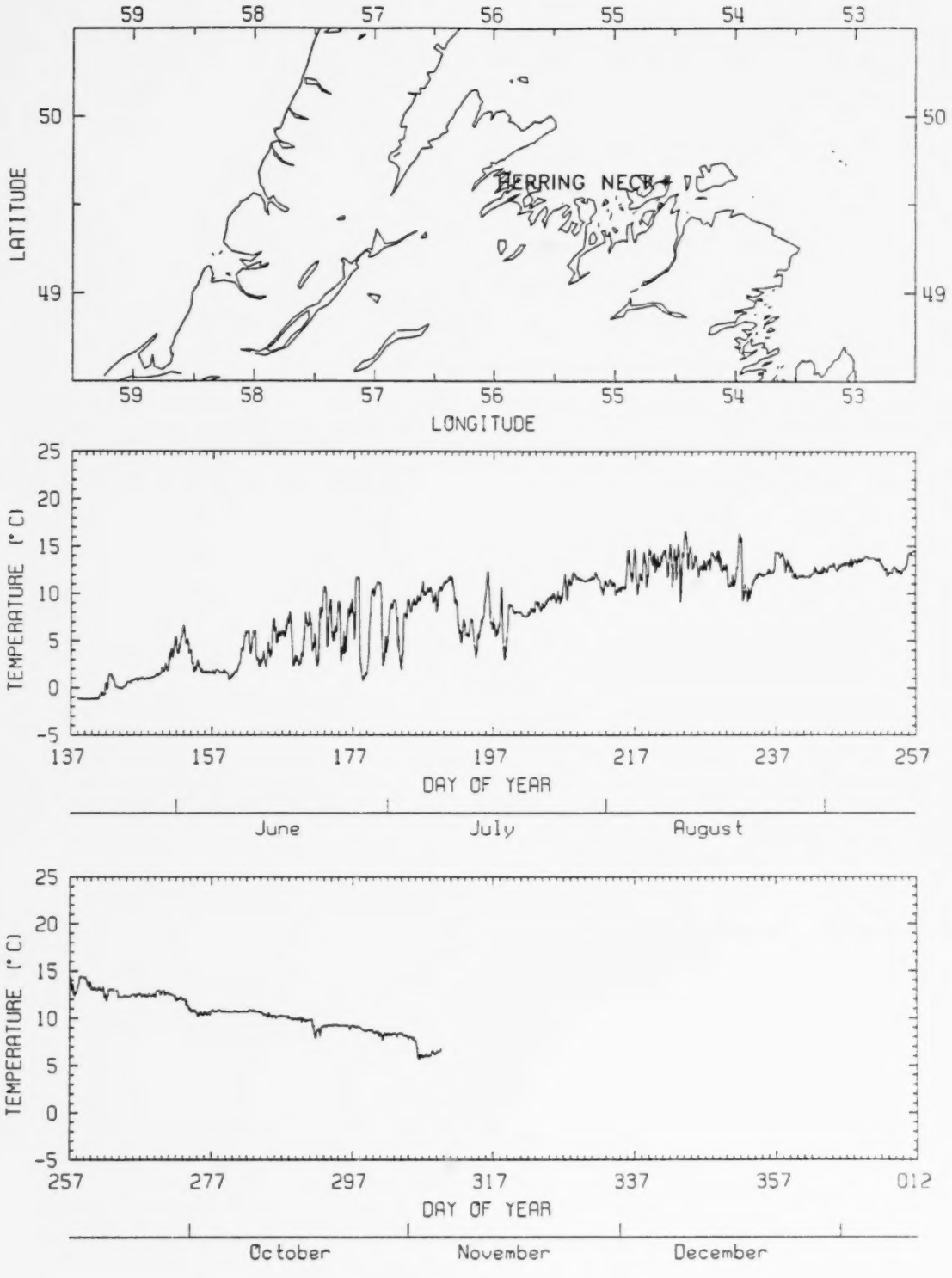
Start: 2-MAY-2000 End: 4-NOV-2000 Inst. S/N: 7930

THERMOGRAPH DATA SUMMARY

STATION NAME:	HERRING NECK
STATION NUMBER:	125
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	003808
LATITUDE:	49.63° N
LONGITUDE:	54.58° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	10 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	17-MAY-2001 22:00 GMT
RECOVERY DATE/TIME:	05-NOV-2001 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2001	-1.20	137	5.40	151	0.61	1.44	12.8	0.2	338
JUN-2001	0.70	178	11.70	177	4.75	2.79	142.6	42.8	720
JUL-2001	1.90	183	12.30	196	8.82	2.18	273.4	149.4	744
AUG-2001	9.10	223	16.60	224	12.51	1.38	387.9	263.9	744
SEP-2001	10.80	273	14.50	256	12.87	0.67	386.1	266.1	720
OCT-2001	7.60	301	11.00	274	9.68	0.92	300.1	176.1	744
NOV-2001	5.70	306	8.00	305	6.59	0.75	32.9	12.9	111
T.PERIOD	-1.20	137	16.60	224	8.91	4.12	1535.9	911.4	4121



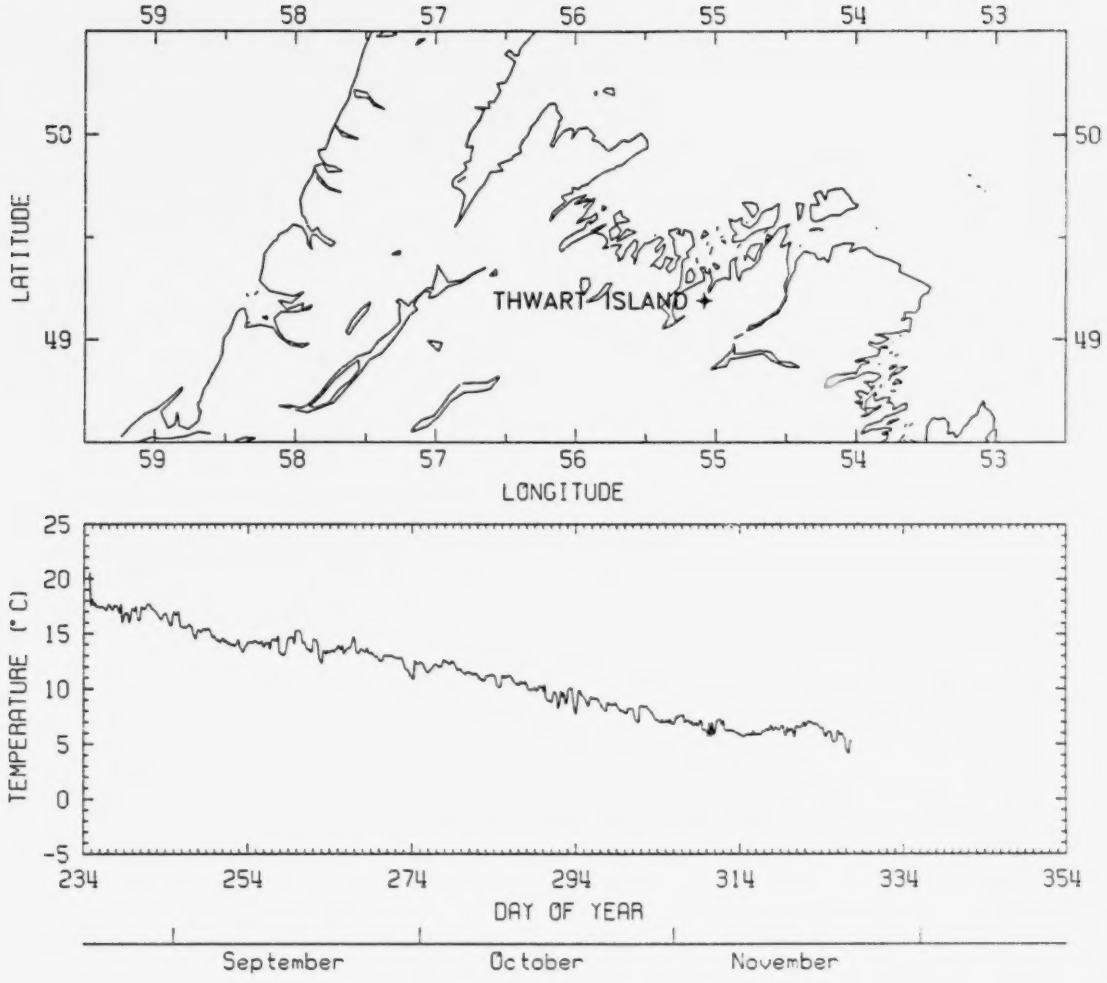
Start:17-MAY-2001 End: 5-NOV-2001 Inst. S/N:3808

THERMOGRAPH DATA SUMMARY

STATION NAME:	THWART ISLAND
STATION NUMBER:	267
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	006642
LATITUDE:	49.19° N
LONGITUDE:	55.08° W
INSTRUMENT DEPTH:	2 m
WATER DEPTH:	2 m
SAMPLE INTERVAL:	240 min.
DEPLOYMENT DATE/TIME:	21-AUG-2000 16:00 GMT
RECOVERY DATE/TIME:	22-NOV-2000 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
AUG-2000	15.70	244	20.55	234	17.09	0.70	189.2	145.2	62
SEP-2000	10.85	274	17.00	245	13.88	1.09	416.3	296.3	180
OCT-2000	6.85	305	12.60	277	9.77	1.61	302.8	178.8	186
NOV-2000	4.20	327	7.60	307	6.32	0.62	138.8	50.8	131
T.PERIOD	4.20	327	20.55	234	11.10	3.71	1047.2	671.2	559



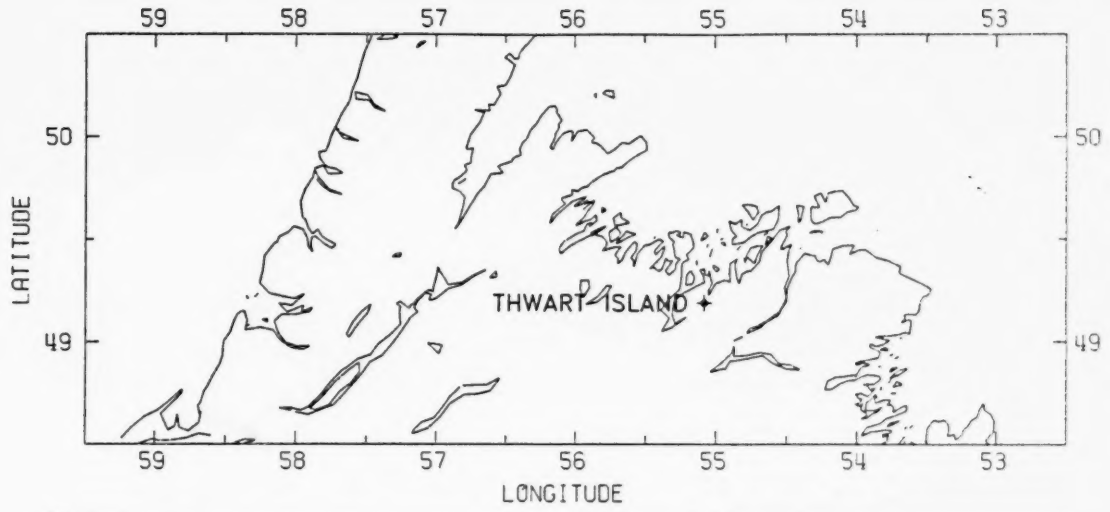
Start: 21-AUG-2000 End: 22-NOV-2000 Inst. S/N:6642

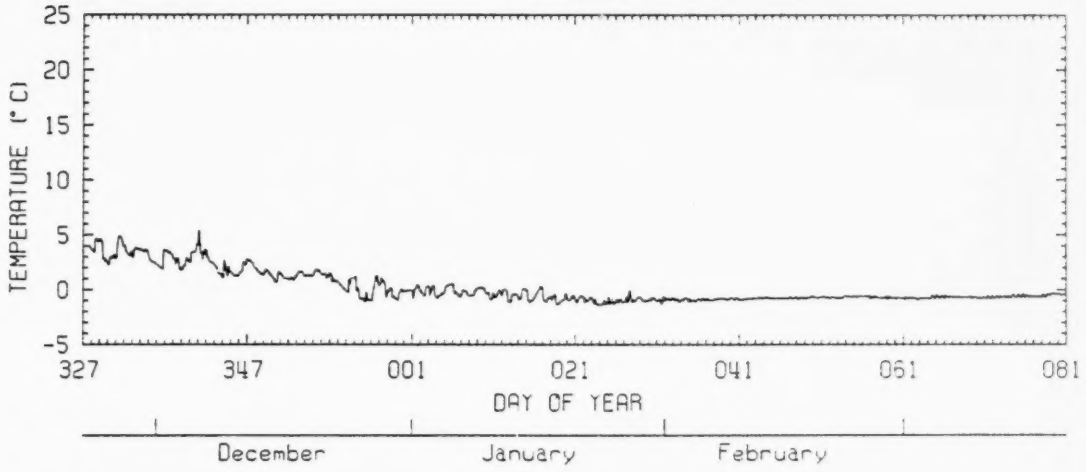
THERMOGRAPH DATA SUMMARY

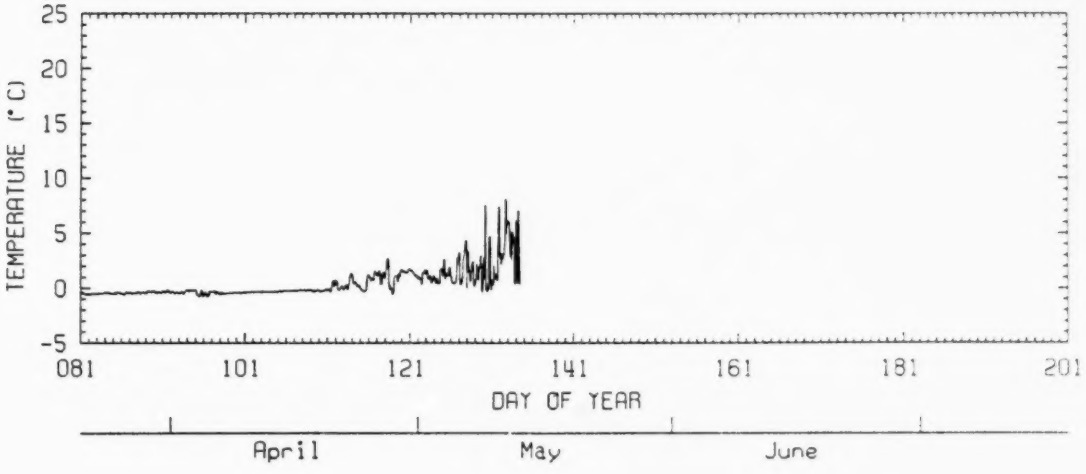
STATION NAME:	THWART ISLAND
STATION NUMBER:	267
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	005459
LATITUDE:	49.19° N
LONGITUDE:	55.08° W
INSTRUMENT DEPTH:	2 m
WATER DEPTH:	2 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	22-NOV-2000 18:00 GMT
RECOVERY DATE/TIME:	14-MAY-2001 10:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
NOV-2000	2.25	330	4.95	331	3.47	0.69	31.5	0.3	198
DEC-2000	-1.10	361	5.40	341	1.42	1.19	44.4	0.0	720
JAN-2001	-1.40	23	0.50	5	-0.60	0.47	0.5	0.0	744
FEB-2001	-1.10	33	-0.55	49	-0.78	0.12	0.0	0.0	672
MAR-2001	-0.90	61	-0.25	89	-0.59	0.15	0.0	0.0	744
APR-2001	-0.75	95	2.65	118	0.00	0.63	6.8	0.0	720
MAY-2001	-0.35	129	8.10	132	1.88	1.72	27.1	0.3	323
T.PERIOD	-1.40	23	8.10	132	0.22	1.42	110.2	0.6	4121







Start:22-NOV-2000 End:14-MAY-2001 Inst. S/N:5459

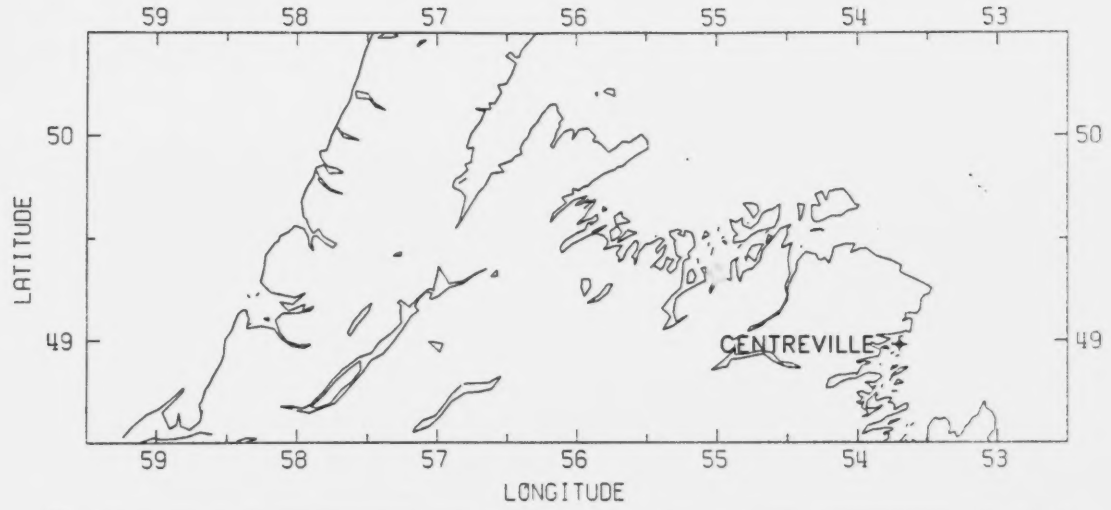
Appendix 7. Time Series Plots and Monthly Statistics from Unit Area 3La.

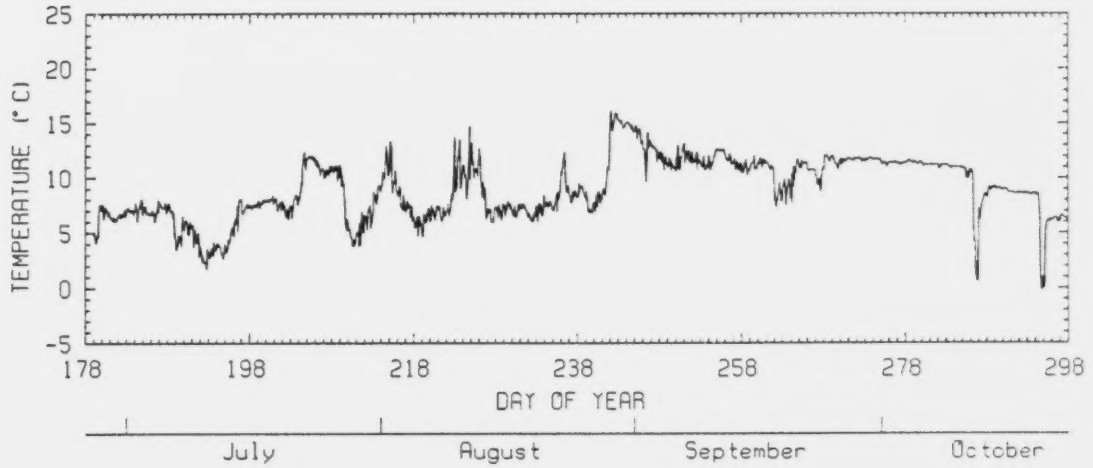
THERMOGRAPH DATA SUMMARY

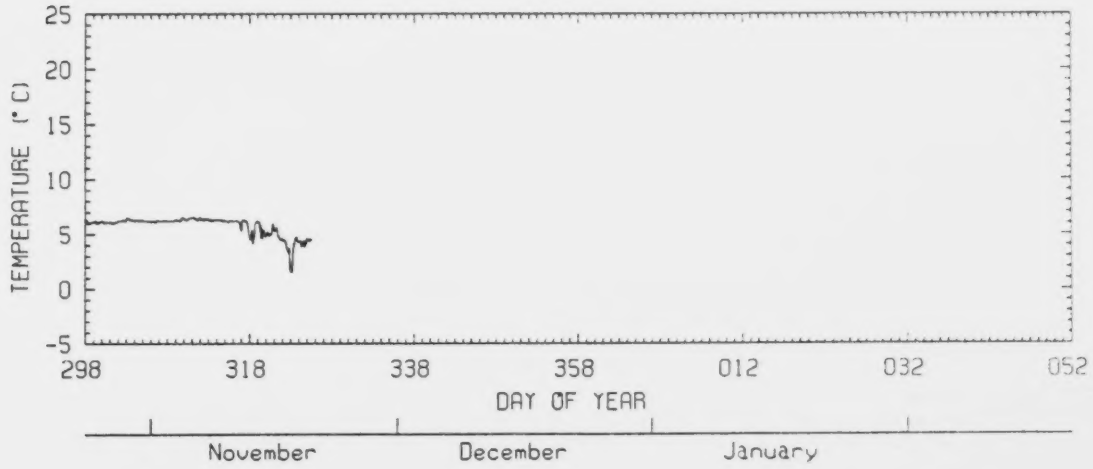
STATION NAME:	CENTREVILLE
STATION NUMBER:	240
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	002187
LATITUDE:	48.98° N
LONGITUDE:	53.70° W
INSTRUMENT DEPTH:	20 m
WATER DEPTH:	22 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	26-JUN-2000 22:00 GMT
RECOVERY DATE/TIME:	20-NOV-2000 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2000	4.10	179	7.60	179	6.32	0.87	30.3	10.3	98
JUL-2000	1.70	192	12.30	204	6.97	2.36	216.1	94.6	744
AUG-2000	4.60	219	16.10	242	8.78	2.64	272.2	148.2	744
SEP-2000	7.30	262	14.80	245	11.37	1.12	341.0	221.0	720
OCT-2000	-0.20	294	11.60	275	8.44	2.54	261.6	137.6	744
NOV-2000	1.50	323	6.50	309	5.61	0.98	111.6	32.2	470
T.PERIOD	-0.20	294	16.10	242	8.36	2.80	1232.7	643.8	3520







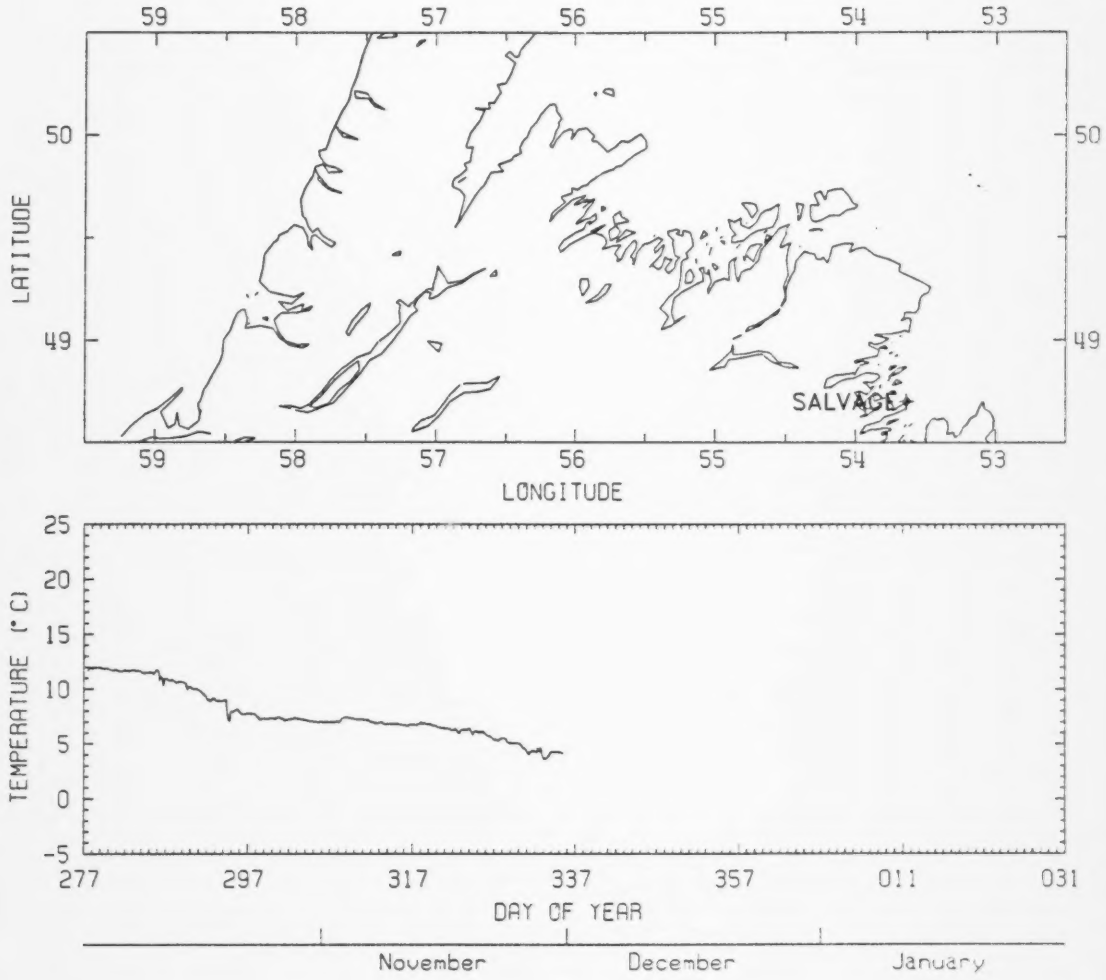
Start:26-JUN-2000 End:20-NOV-2000 Inst. S/N:2187

THERMOGRAPH DATA SUMMARY

STATION NAME:	SALVAGE
STATION NUMBER:	129
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007927
LATITUDE:	48.70° N
LONGITUDE:	53.64° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	10 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	03-OCT-2000 13:00 GMT
RECOVERY DATE/TIME:	30-NOV-2000 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
OCT-2000	6.95	305	12.05	277	9.45	1.88	275.2	159.2	683
NOV-2000	3.65	333	7.45	308	6.09	1.05	181.8	62.0	709
T.PERIOD	3.65	333	12.05	277	7.74	2.26	457.1	221.2	1392



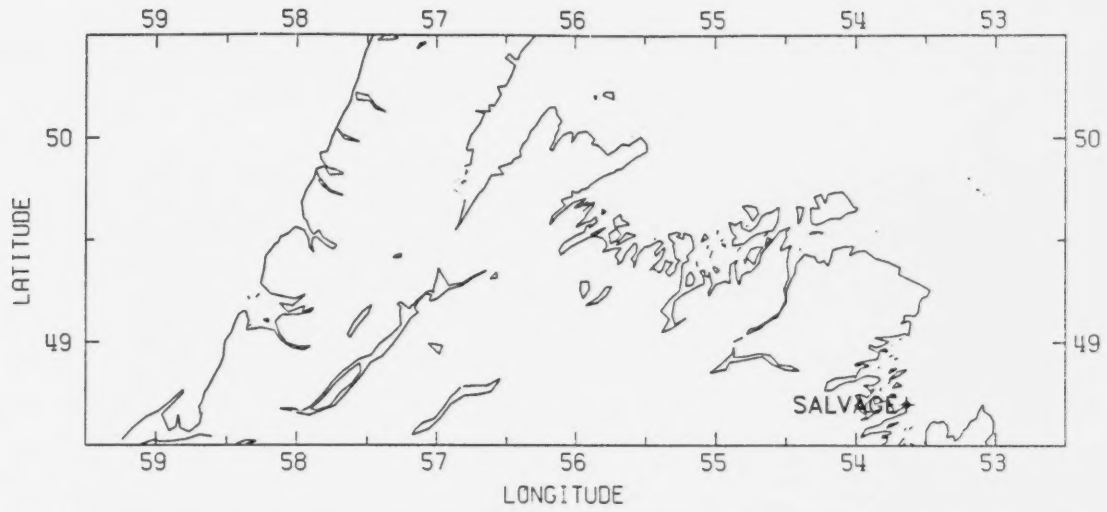
Start: 3-OCT-2000 End: 30-NOV-2000 Inst. S/N:7927

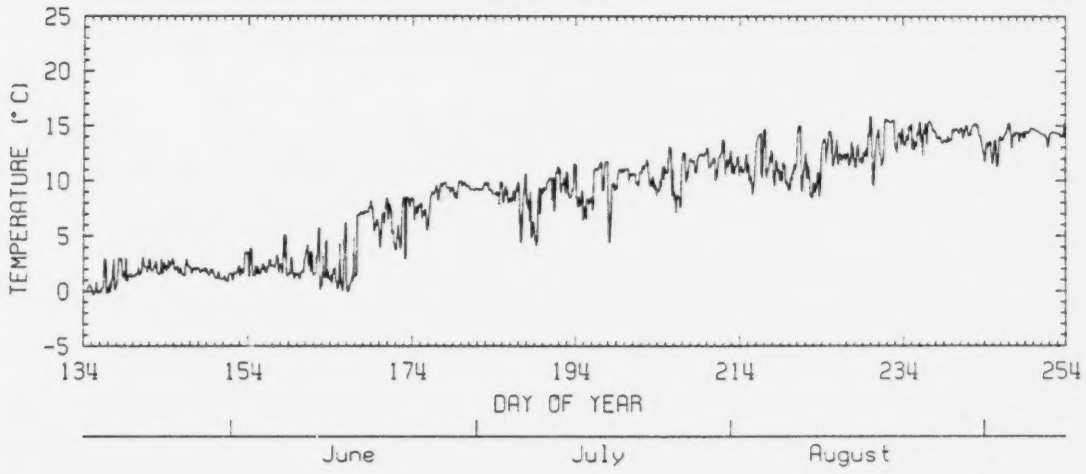
THERMOGRAPH DATA SUMMARY

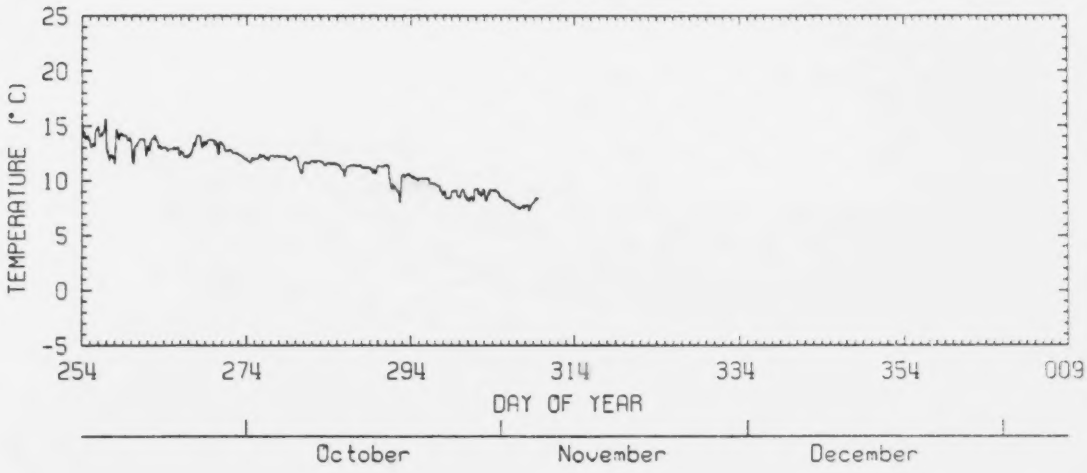
STATION NAME:	SALVAGE
STATION NUMBER:	129
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	003826
LATITUDE:	48.70° N
LONGITUDE:	53.64° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	10 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	14-MAY-2001 10:00 GMT
RECOVERY DATE/TIME:	05-NOV-2001 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2001	-0.30	135	3.10	141	1.57	0.81	27.7	0.0	422
JUN-2001	0.00	165	10.00	179	4.84	3.15	145.3	54.4	720
JUL-2001	4.10	189	13.70	211	9.80	1.75	303.9	179.9	744
AUG-2001	8.40	222	15.80	229	12.74	1.80	395.0	271.0	744
SEP-2001	11.20	245	15.60	256	13.49	0.84	404.7	284.7	720
OCT-2001	8.00	292	12.40	275	10.60	1.28	328.6	204.6	744
NOV-2001	7.20	308	8.50	305	7.91	0.33	39.7	19.7	112
T.PERIOD	-0.30	135	15.80	229	9.37	4.26	1644.9	1014.3	4206







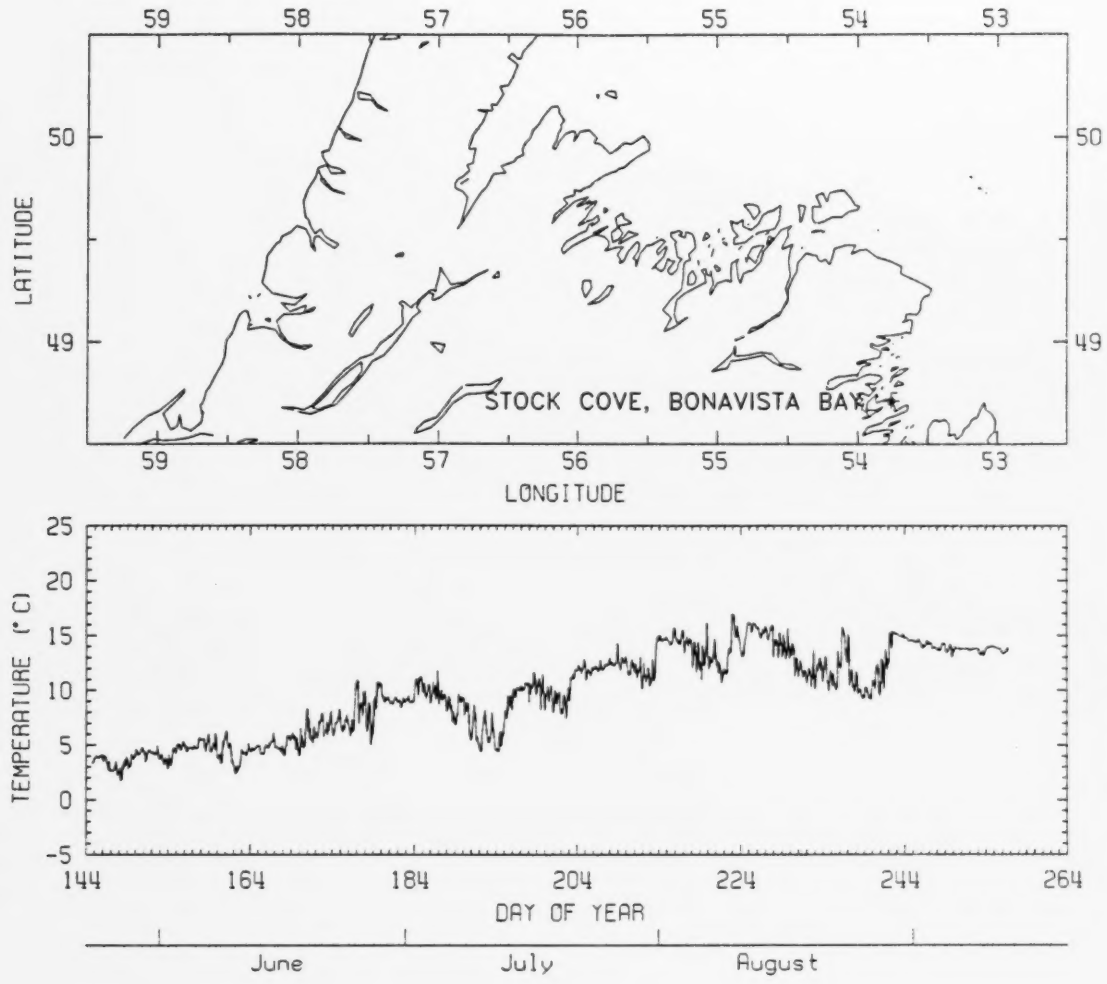
Start: 14-MAY-2001 End: 5-NOV-2001 Inst. S/N: 3826

THERMOGRAPH DATA SUMMARY

STATION NAME:	STOCK COVE, BONAVISTA BAY
STATION NUMBER:	110
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	003263
LATITUDE:	48.71° N
LONGITUDE:	53.76° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	23-MAY-2000 19:00 GMT
RECOVERY DATE/TIME:	12-SEP-2000 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2000	1.70	148	4.95	152	3.66	0.69	32.8	0.8	197
JUN-2000	2.35	162	10.90	177	5.92	1.91	177.6	59.1	720
JUL-2000	4.40	192	14.90	213	9.86	2.18	305.6	181.6	744
AUG-2000	9.10	239	16.95	222	13.22	1.87	409.8	285.8	744
SEP-2000	13.00	249	14.65	245	13.86	0.31	166.3	118.3	282
T.PERIOD	1.70	148	16.95	222	9.70	3.88	1092.1	645.5	2687



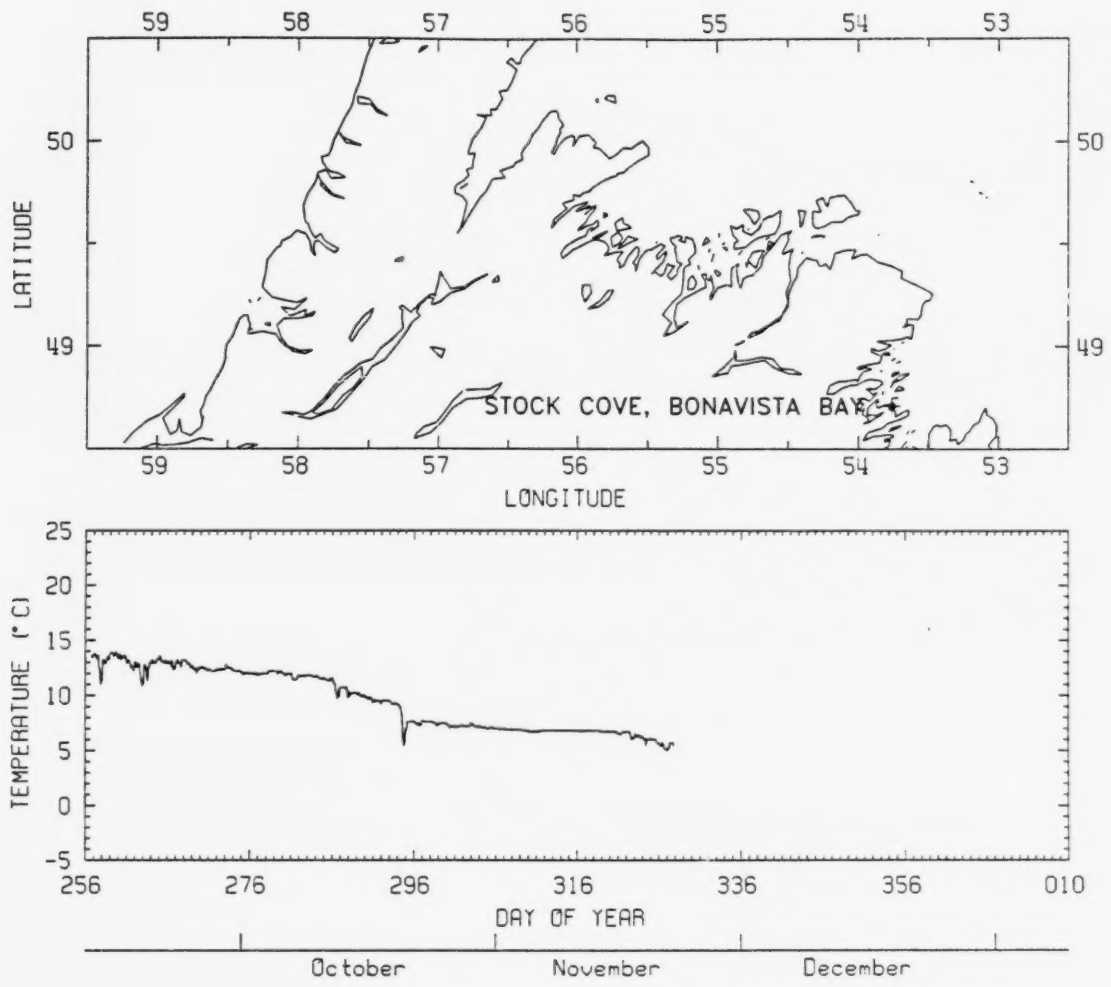
Start: 23-MAY-2000 End: 12-SEP-2000 Inst. S/N:3263

THERMOGRAPH DATA SUMMARY

STATION NAME:	STOCK COVE, BONAVISTA BAY
STATION NUMBER:	110
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	003837
LATITUDE:	48.71° N
LONGITUDE:	53.76° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	12-SEP-2000 18:00 GMT
RECOVERY DATE/TIME:	22-NOV-2000 18:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
SEP-2000	10.90	262	13.90	259	12.77	0.57	243.3	167.3	438
OCT-2000	5.40	294	12.20	278	9.61	1.99	297.8	173.8	744
NOV-2000	5.00	326	7.00	306	6.56	0.45	144.1	56.1	523
T.PERIOD	5.00	326	13.90	259	9.49	2.70	685.2	397.2	1705



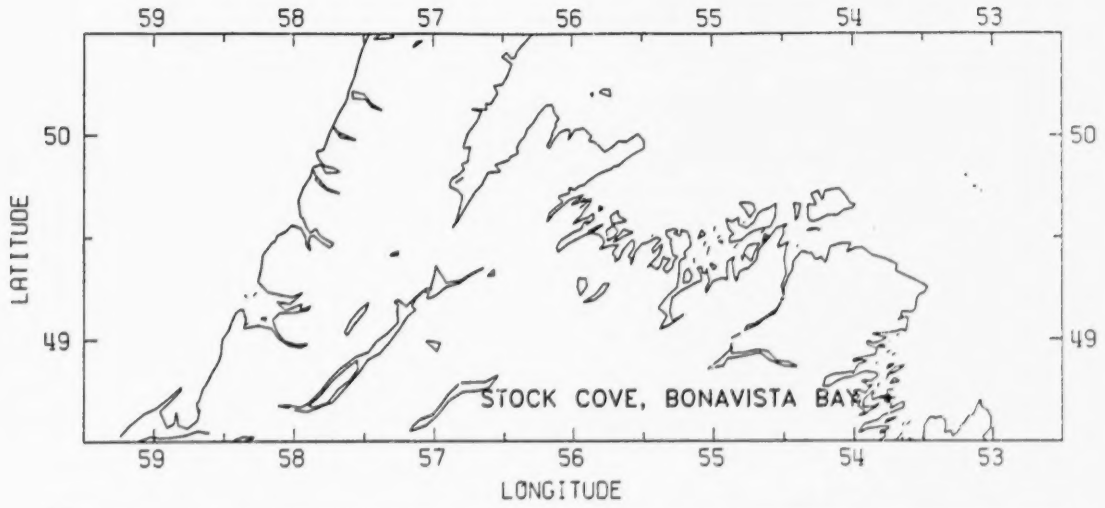
Start: 12-SEP-2000 End: 22-NOV-2000 Inst. S/N:3837

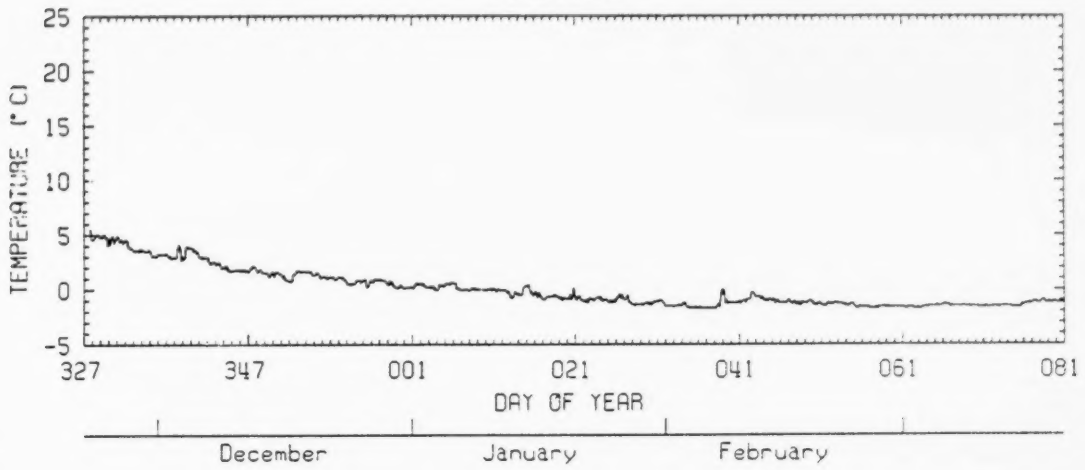
THERMOGRAPH DATA SUMMARY

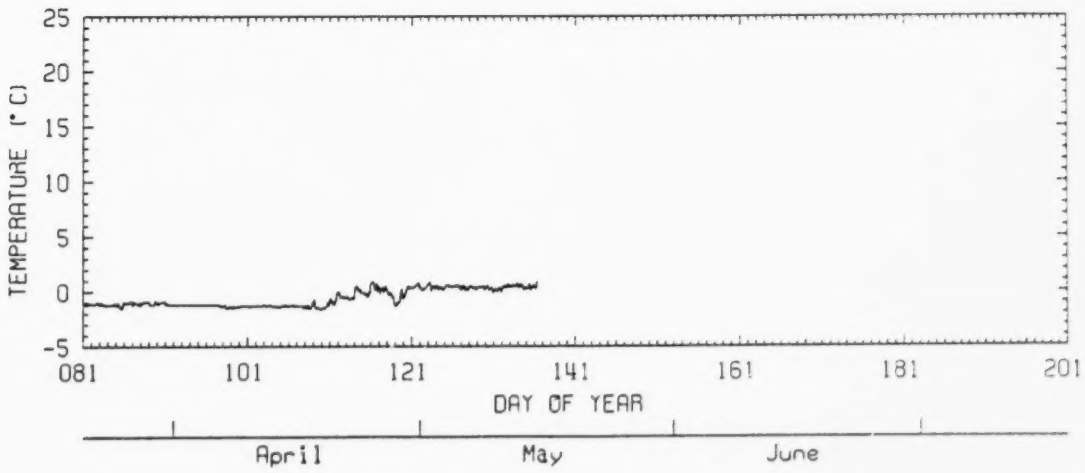
STATION NAME:	STOCK COVE, BONAVISTA BAY
STATION NUMBER:	110
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	003827
LATITUDE:	48.71° N
LONGITUDE:	53.76° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	22-NOV-2000 18:00 GMT
RECOVERY DATE/TIME:	16-MAY-2001 07:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
NOV-2000	3.00	335	5.50	327	4.14	0.64	37.9	3.6	198
DEC-2000	0.10	361	4.10	338	1.65	0.96	49.6	0.0	720
JAN-2001	-1.50	28	0.60	1	-0.47	0.57	1.8	0.0	744
FEB-2001	-1.70	34	0.00	38	-1.32	0.32	0.0	0.0	672
MAR-2001	-1.70	61	-0.80	86	-1.34	0.24	0.0	0.0	744
APR-2001	-1.60	109	0.90	116	-0.93	0.60	1.1	0.0	720
MAY-2001	-0.10	130	0.90	123	0.40	0.17	6.4	0.0	368
T.PERIOD	-1.70	34	5.50	327	-0.18	1.55	96.7	3.6	4166







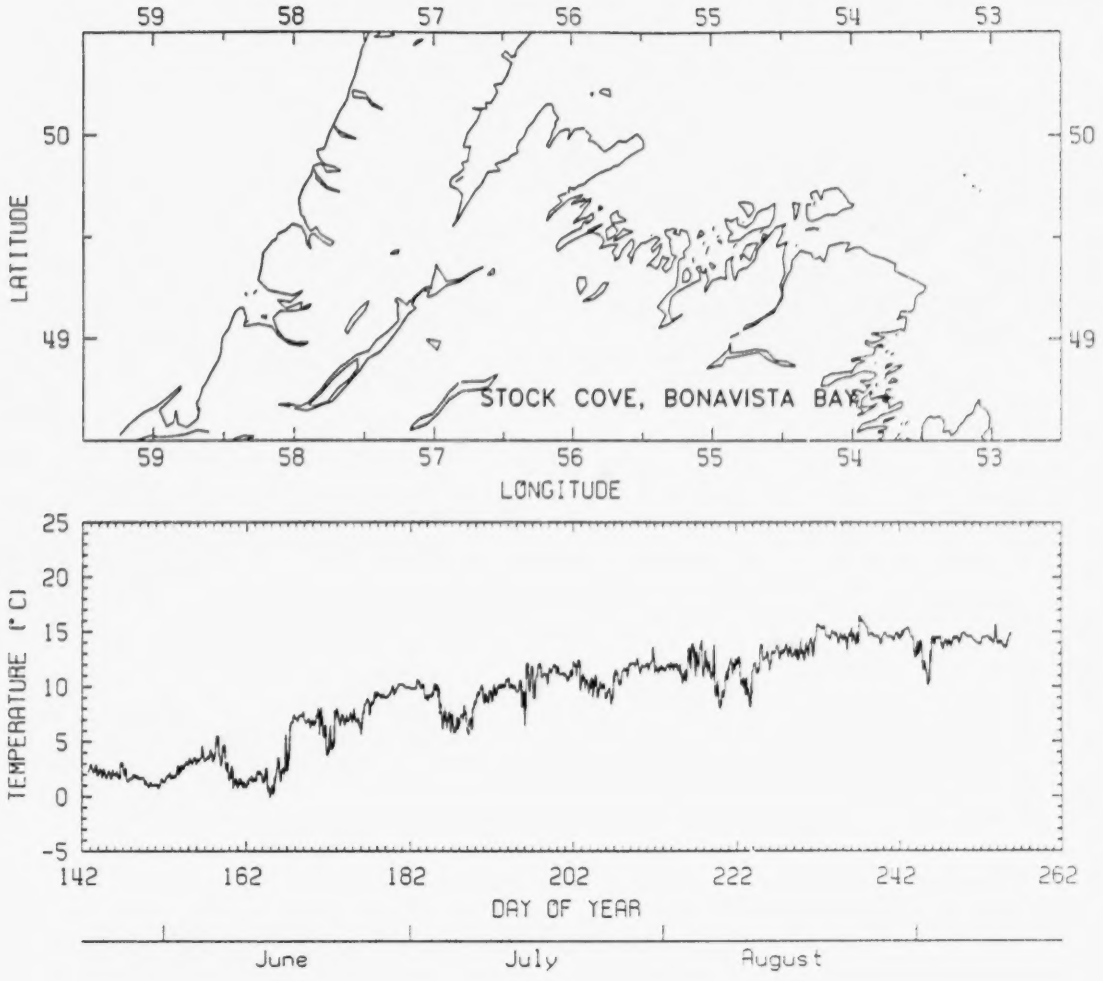
Start:22-NOV-2000 End:16-MAY-2001 Inst. S/N:3827

THERMOGRAPH DATA SUMMARY

STATION NAME:	STOCK COVE, BONAVISTA BAY
STATION NUMBER:	110
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	006246
LATITUDE:	48.71° N
LONGITUDE:	53.76° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	22-MAY-2001 19:00 GMT
RECOVERY DATE/TIME:	12-SEP-2001 18:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2001	0.70	151	3.10	146	1.80	0.55	18.5	0.0	221
JUN-2001	-0.10	164	10.20	180	5.00	2.95	150.1	54.2	720
JUL-2001	5.60	189	13.60	211	10.02	1.60	310.7	186.7	744
AUG-2001	8.00	220	16.50	237	13.09	1.76	405.8	281.8	744
SEP-2001	10.10	245	15.70	253	13.97	0.92	167.7	119.7	283
T.PERIOD	-0.10	164	16.50	237	9.27	4.45	1052.7	642.3	2712



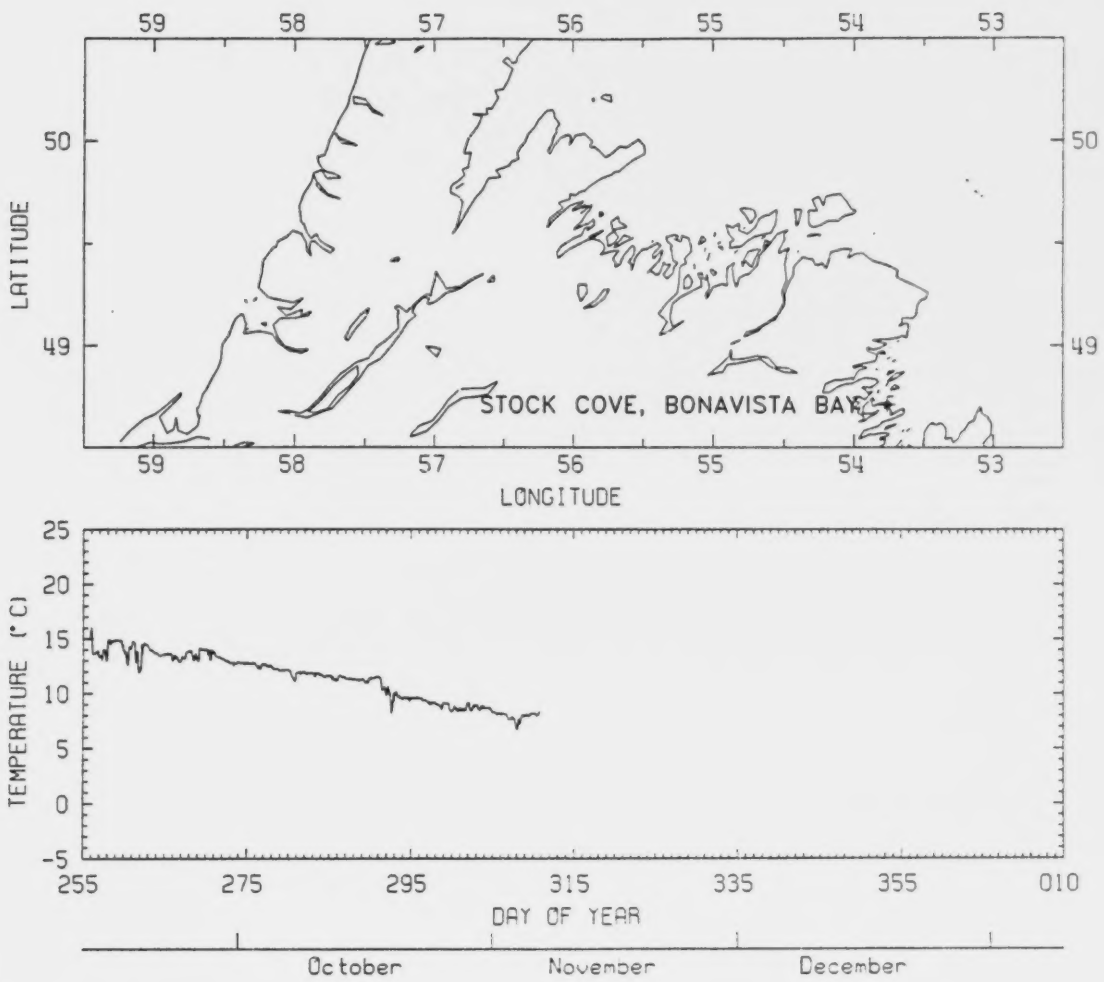
Start: 22-MAY-2001 End: 12-SEP-2001 Inst. S/N:6246

THERMOGRAPH DATA SUMMARY

STATION NAME:	STOCK COVE, BONAVISTA BAY
STATION NUMBER:	110
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007818
LATITUDE:	48.71° N
LONGITUDE:	53.76° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	12-SEP-2001 19:00 GMT
RECOVERY DATE/TIME:	06-NOV-2001 19:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
SEP-2001	11.85	261	16.05	256	13.67	0.66	261.1	185.1	437
OCT-2001	8.15	292	12.85	274	10.65	1.44	330.1	206.1	744
NOV-2001	6.65	308	8.35	305	7.91	0.32	47.5	23.5	140
T.PERIOD	6.65	308	16.05	256	11.36	2.16	638.6	414.6	1321



Start: 12-SEP-2001 End: 6-NOV-2001 Inst. S/N:7818

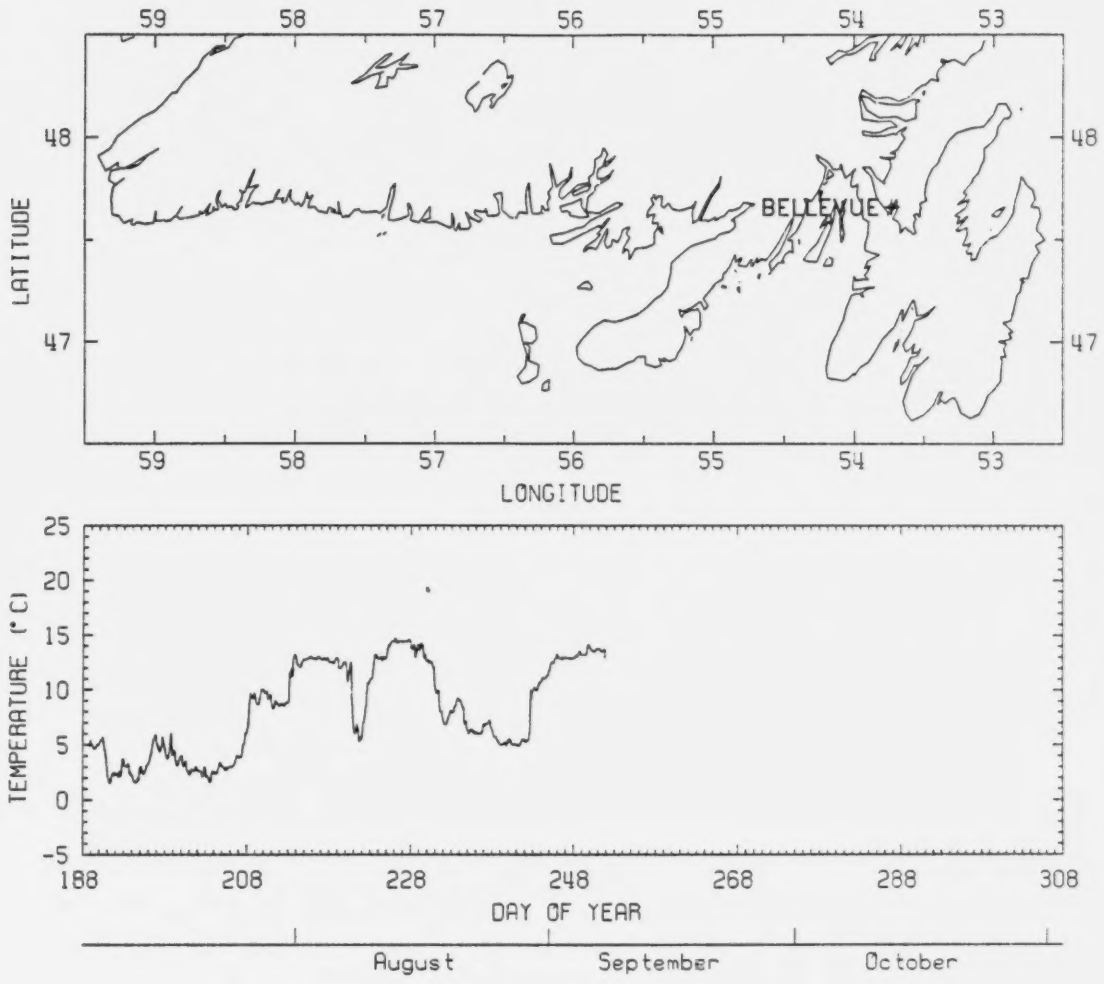
Appendix 8. Time Series Plots and Monthly Statistics from Unit Area 3Lb.

THERMOGRAPH DATA SUMMARY

STATION NAME:	BELLEVUE
STATION NUMBER:	146
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	003810
LATITUDE:	47.66° N
LONGITUDE:	53.73° W
INSTRUMENT DEPTH:	8 m
WATER DEPTH:	8 m
SAMPLE INTERVAL:	30 min.
DEPLOYMENT DATE/TIME:	06-JUL-2000 19:30 GMT
RECOVERY DATE/TIME:	07-SEP-2000 20:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2000	1.50	191	13.20	213	4.79	2.82	124.9	37.7	1209
AUG-2000	4.90	239	14.70	226	9.96	3.27	308.8	184.8	1488
SEP-2000	11.70	245	14.10	249	13.15	0.45	92.1	64.1	329
T.PERIOD	1.50	191	14.70	226	8.24	4.16	525.9	286.6	3026



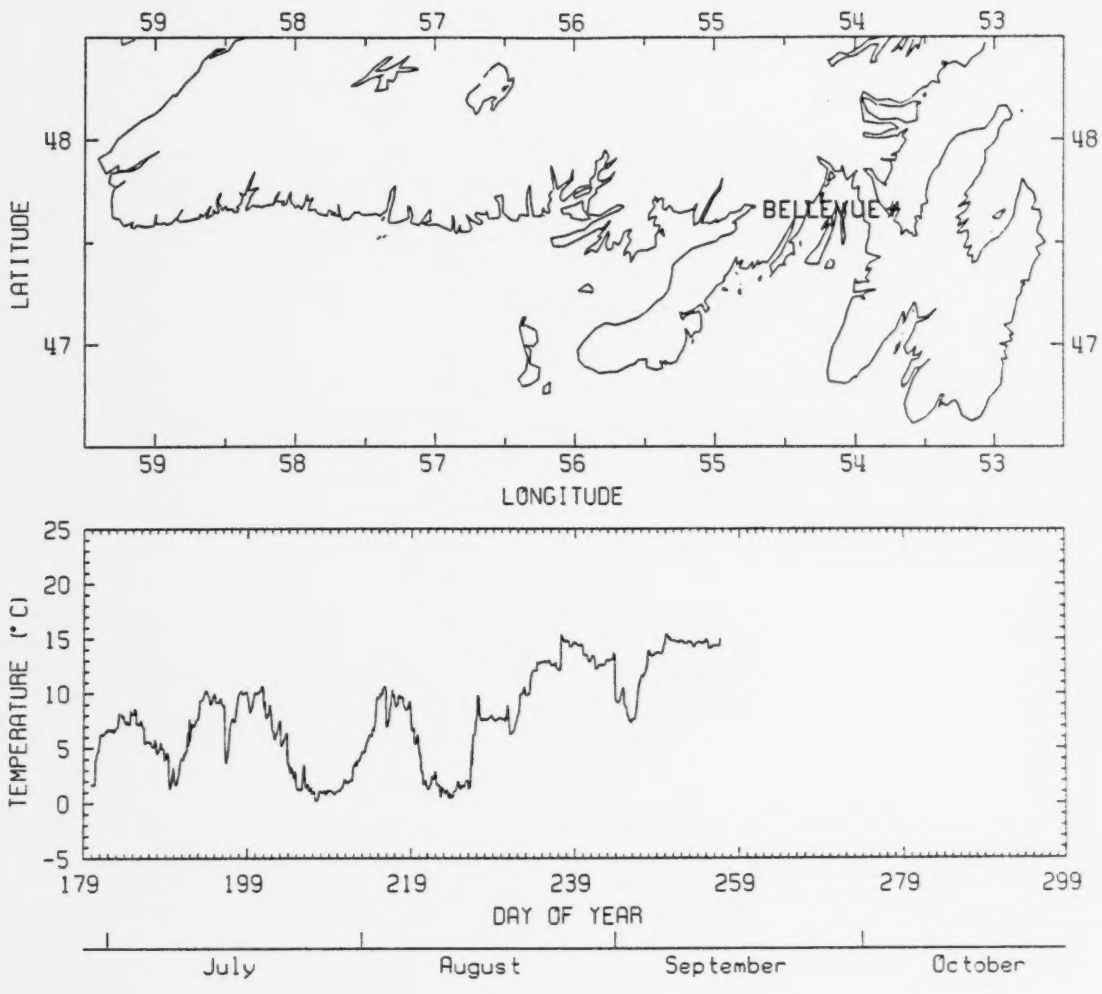
Start: 6-JUL-2000 End: 7-SEP-2000 Inst. S/N:3810

THERMOGRAPH DATA SUMMARY

STATION NAME:	BELLEVUE
STATION NUMBER:	146
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	005459
LATITUDE:	47.66° N
LONGITUDE:	53.73° W
INSTRUMENT DEPTH:	8 m
WATER DEPTH:	8 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	28-JUN-2001 22:00 GMT
RECOVERY DATE/TIME:	13-SEP-2001 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2001	1.60	180	6.75	181	4.70	1.92	11.4	2.3	50
JUL-2001	0.15	207	10.60	200	5.51	3.09	170.9	69.4	744
AUG-2001	0.45	223	15.35	237	8.40	4.33	260.4	150.9	744
SEP-2001	7.30	245	15.40	250	12.95	2.42	168.9	116.9	303
T.PERIOD	0.15	207	15.40	250	7.88	4.40	611.6	339.5	1841



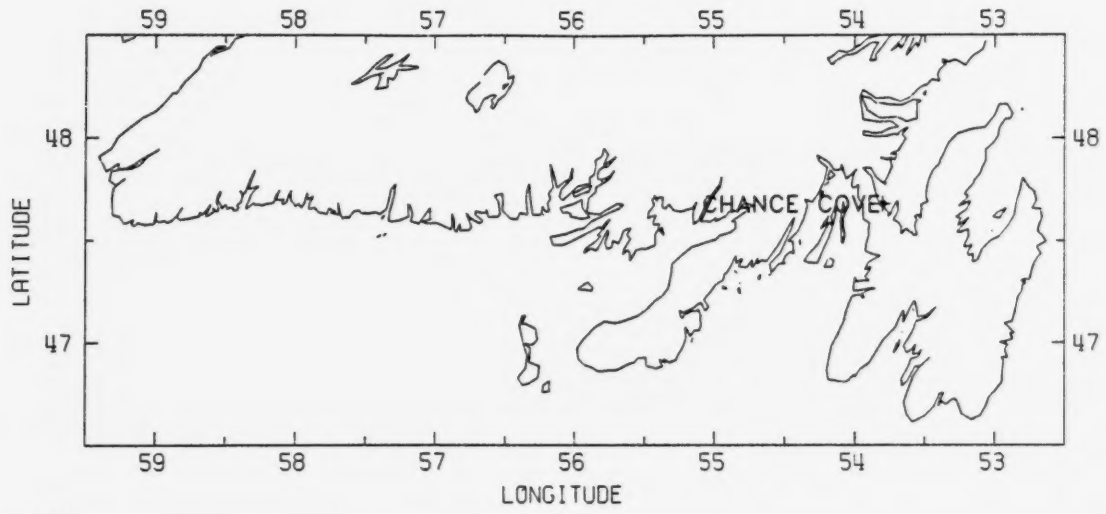
Start: 28-JUN-2001 End: 13-SEP-2001 Inst. S/N:5459

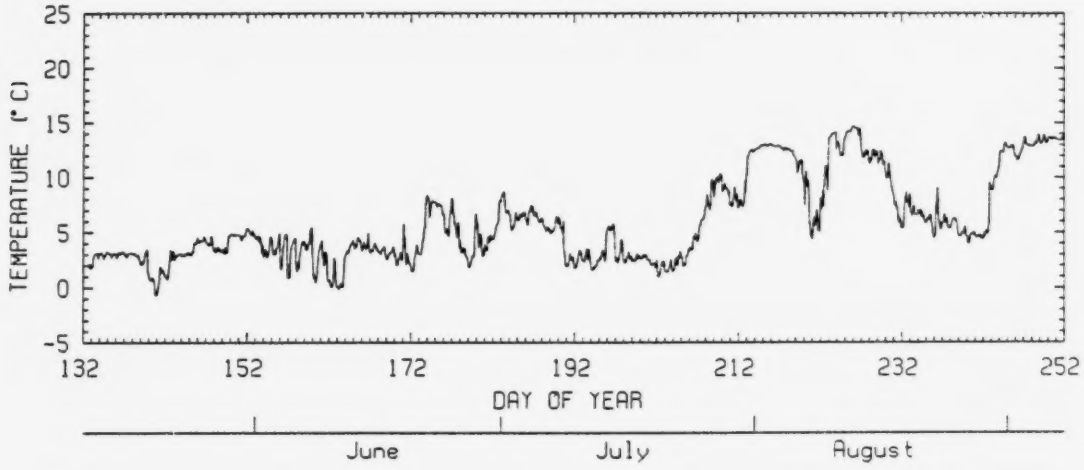
THERMOGRAPH DATA SUMMARY

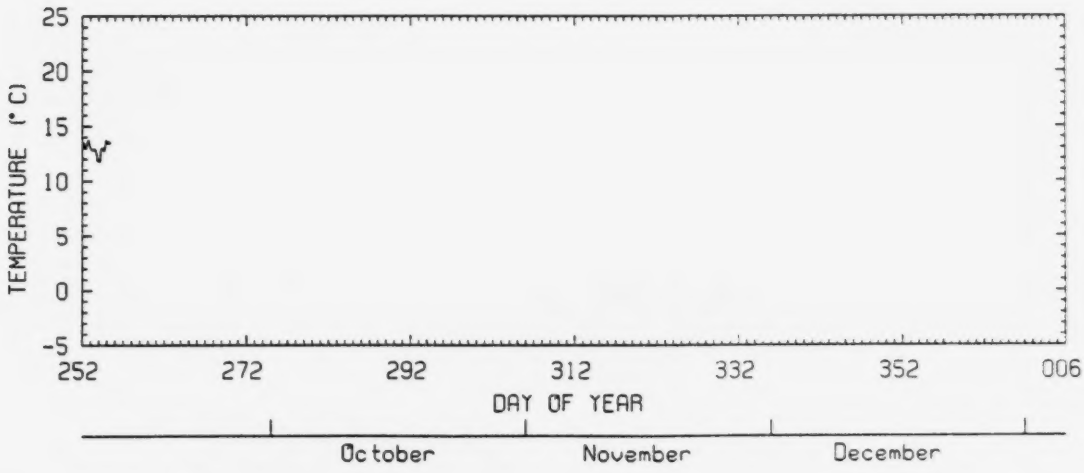
STATION NAME:	CHANCE COVE
STATION NUMBER:	149
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	006744
LATITUDE:	47.68° N
LONGITUDE:	53.80° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	29 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	11-MAY-2000 13:00 GMT
RECOVERY DATE/TIME:	11-SEP-2000 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2000	-0.65	140	5.35	152	3.11	1.20	64.6	2.7	491
JUN-2000	-0.15	163	8.35	174	3.71	1.78	111.4	13.6	720
JUL-2000	0.95	202	12.50	213	4.91	2.75	152.3	50.1	744
AUG-2000	3.95	240	14.65	226	9.40	3.34	291.3	167.3	744
SEP-2000	11.55	246	13.95	248	13.06	0.55	143.8	99.8	252
T.PERIOD	-0.65	140	14.65	226	6.15	3.98	763.5	333.6	2951







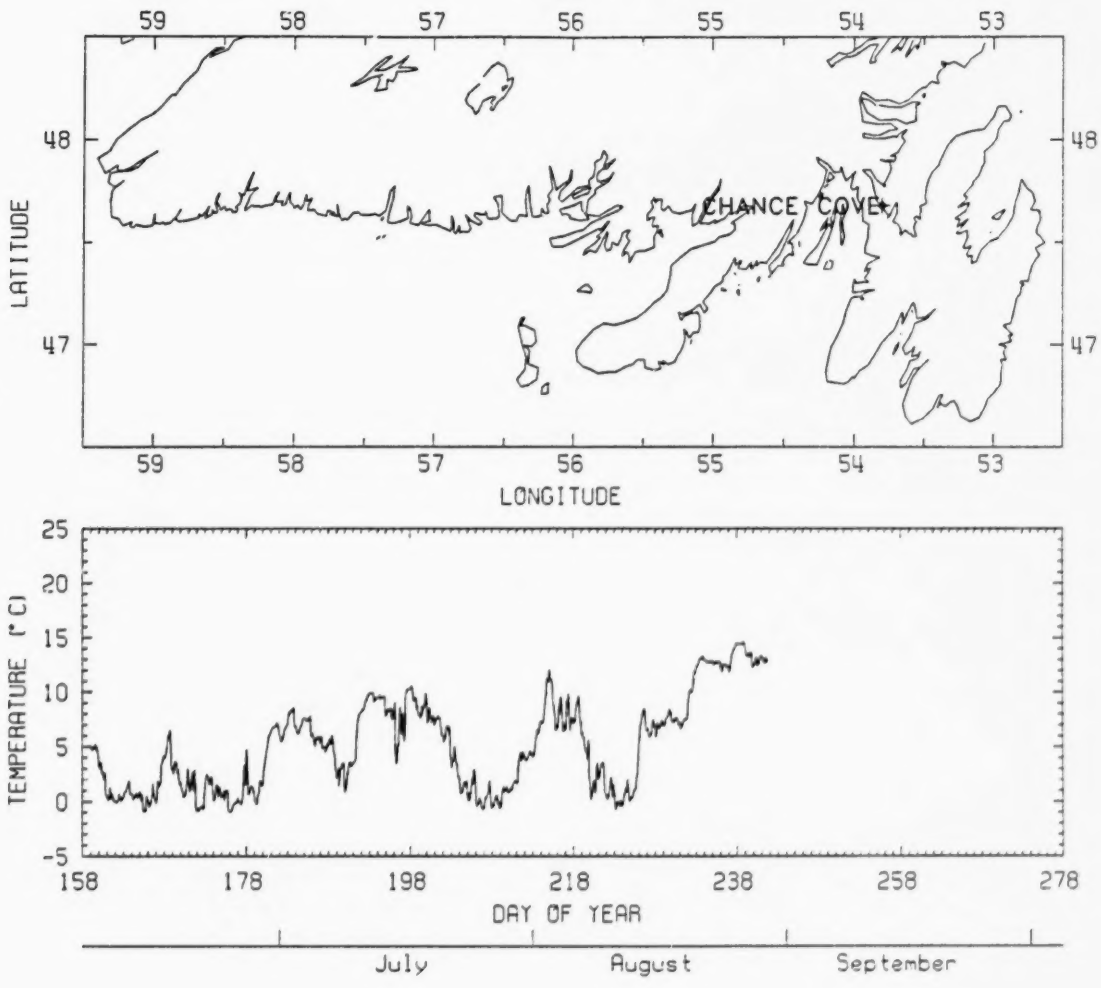
Start:11-MAY-2000 End:11-SEP-2000 Inst. S/N:6744

THERMOGRAPH DATA SUMMARY

STATION NAME:	CHANCE COVE
STATION NUMBER:	149
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	003837
LATITUDE:	47.68° N
LONGITUDE:	53.80° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	33 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	07-JUN-2001 19:00 GMT
RECOVERY DATE/TIME:	29-AUG-2001 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2001	-1.00	176	7.20	181	1.69	2.03	44.2	6.0	557
JUL-2001	-0.70	206	10.50	198	5.19	3.17	161.1	63.5	744
AUG-2001	-0.70	223	14.60	238	7.90	4.41	230.7	131.6	689
T.PERIOD	-1.00	176	14.60	238	5.15	4.20	436.0	201.1	1990



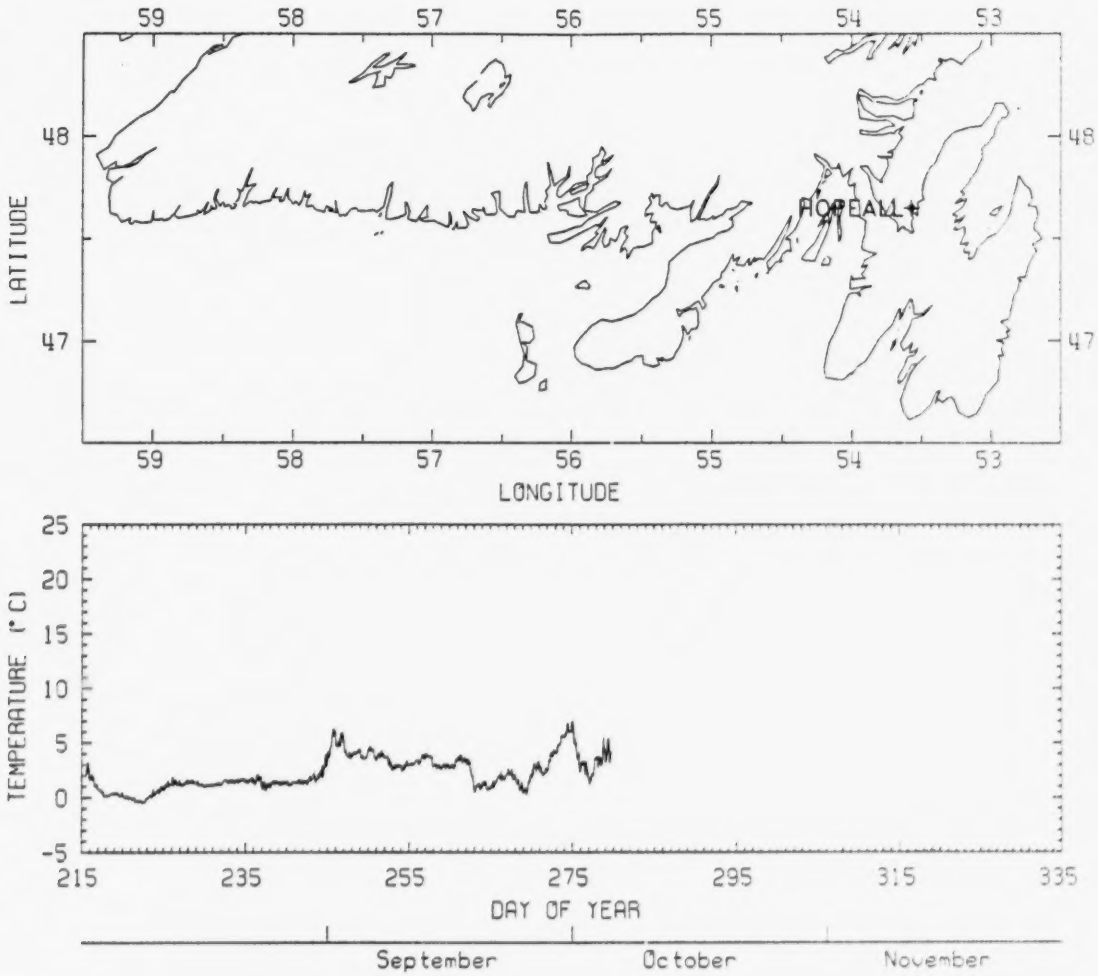
Start: 7-JUN-2001 End: 29-AUG-2001 Inst. S/N:3837

THERMOGRAPH DATA SUMMARY

STATION NAME:	HOPEALL
STATION NUMBER:	262
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	002186
LATITUDE:	47.65° N
LONGITUDE:	53.57° W
INSTRUMENT DEPTH:	55 m
WATER DEPTH:	59 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	02-AUG-2000 13:00 GMT
RECOVERY DATE/TIME:	05-OCT-2000 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
AUG-2000	-0.50	222	4.10	244	1.10	0.71	34.2	0.0	707
SEP-2000	0.30	269	6.90	274	3.11	1.33	93.3	5.5	720
OCT-2000	1.20	277	7.00	275	3.44	1.17	17.4	0.6	113
T.PERIOD	-0.50	222	7.00	275	2.21	1.49	144.9	6.0	1540



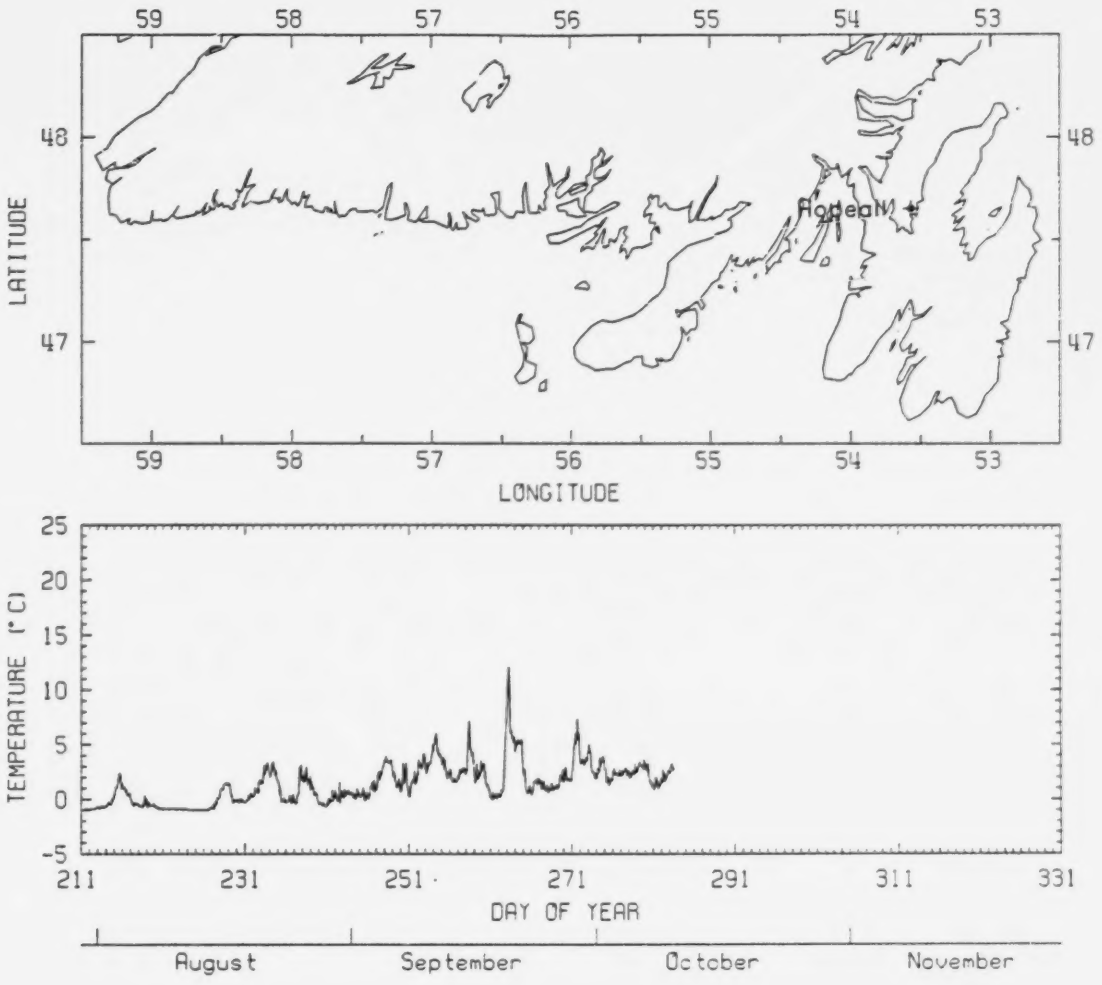
Start: 2-AUG-2000 End: 5-OCT-2000 Inst. S/N:2186

THERMOGRAPH DATA SUMMARY

STATION NAME:	Hopeall
STATION NUMBER:	262
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	002180
LATITUDE:	47.65° N
LONGITUDE:	53.57° W
INSTRUMENT DEPTH:	57 m
WATER DEPTH:	58 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	30-JUL-2001 13:00 GMT
RECOVERY DATE/TIME:	10-OCT-2001 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2001	-1.00	211	-0.70	212	-0.90	0.07	0.0	0.0	35
AUG-2001	-1.00	222	3.40	234	0.12	1.04	13.9	0.0	744
SEP-2001	-0.20	245	12.00	263	2.44	1.81	73.2	6.1	720
OCT-2001	0.80	281	3.90	274	2.35	0.65	23.7	0.0	228
T.PERIOD	-1.00	211	12.00	263	1.36	1.81	110.8	6.1	1727



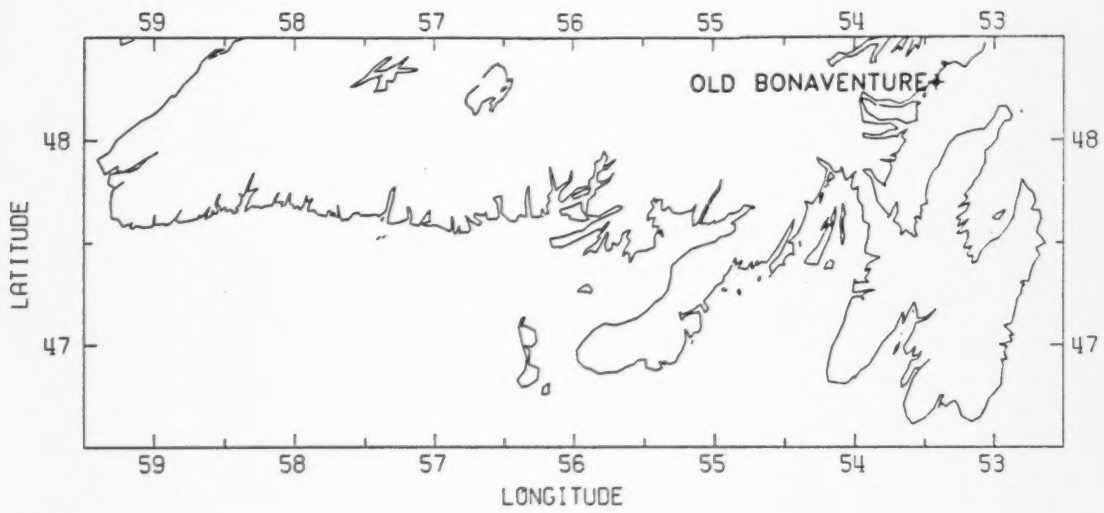
Start: 30-JUL-2001 End: 10-OCT-2001 Inst. S/N:2180

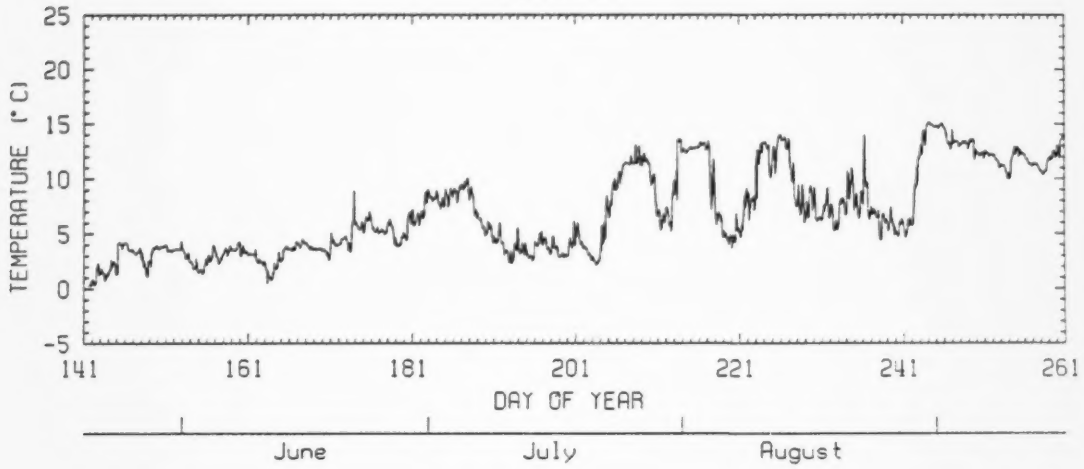
THERMOGRAPH DATA SUMMARY

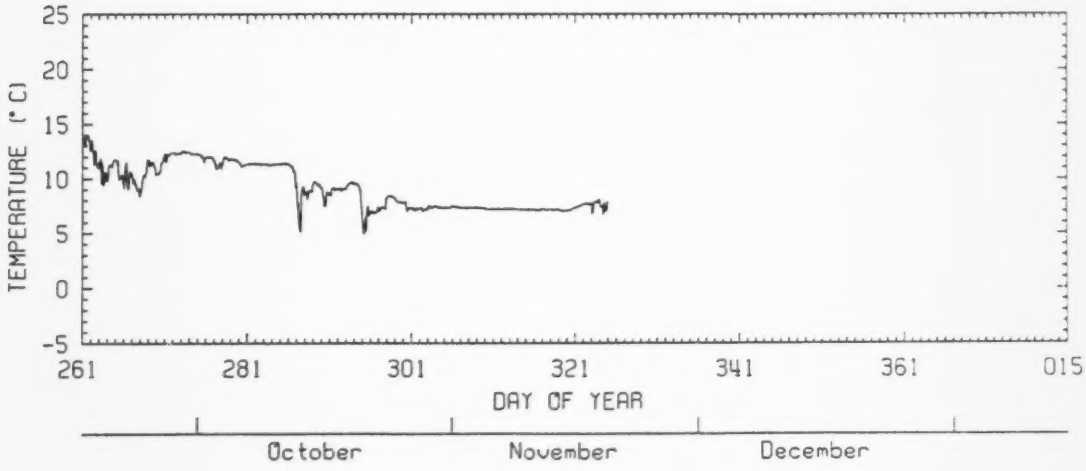
STATION NAME:	OLD BONAVENTURE
STATION NUMBER:	100
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	008971
LATITUDE:	48.28° N
LONGITUDE:	53.42° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	20-MAY-2000 13:00 GMT
RECOVERY DATE/TIME:	19-NOV-2000 23:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2000	0.20	141	4.35	152	2.78	1.17	32.1	0.0	275
JUN-2000	0.45	163	9.00	182	3.97	1.52	119.0	17.1	720
JUL-2000	2.15	203	13.60	213	6.54	3.05	202.8	85.1	744
AUG-2000	3.65	220	15.10	244	8.90	3.16	275.9	151.9	744
SEP-2000	8.30	267	15.05	245	11.90	1.29	357.0	237.0	720
OCT-2000	4.95	295	12.25	275	9.32	1.88	288.8	164.8	744
NOV-2000	6.65	324	8.10	323	7.28	0.21	138.4	62.4	456
T.PERIOD	0.20	141	15.10	244	7.71	3.49	1413.9	718.3	4403







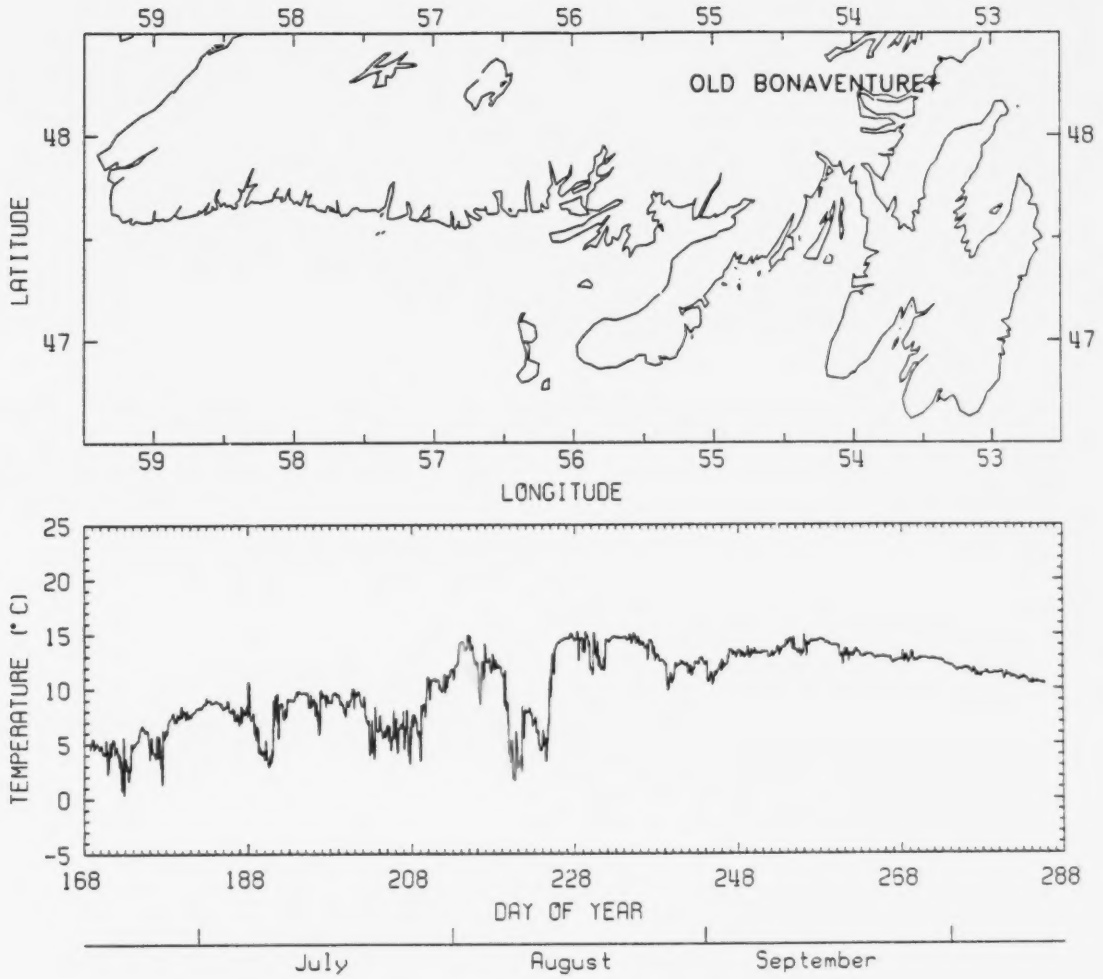
Start:20-MAY-2000 End:19-NOV-2000 Inst. S/N:8971

THERMOGRAPH DATA SUMMARY

STATION NAME:	OLD BONAVENTURE
STATION NUMBER:	100
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	006743
LATITUDE:	48.25° N
LONGITUDE:	53.42° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	17-JUN-2001 17:00 GMT
RECOVERY DATE/TIME:	12-OCT-2001 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2001	0.35	172	8.45	179	5.43	1.75	75.6	21.1	319
JUL-2001	2.90	190	11.80	212	7.95	1.88	246.5	122.8	744
AUG-2001	1.65	220	15.25	228	11.85	3.19	367.4	243.7	744
SEP-2001	10.35	244	14.95	256	13.12	0.76	393.6	273.6	720
OCT-2001	10.35	285	12.15	274	11.28	0.45	135.2	87.2	282
T.PERIOD	0.35	172	15.25	228	10.36	3.33	1218.2	748.4	2809



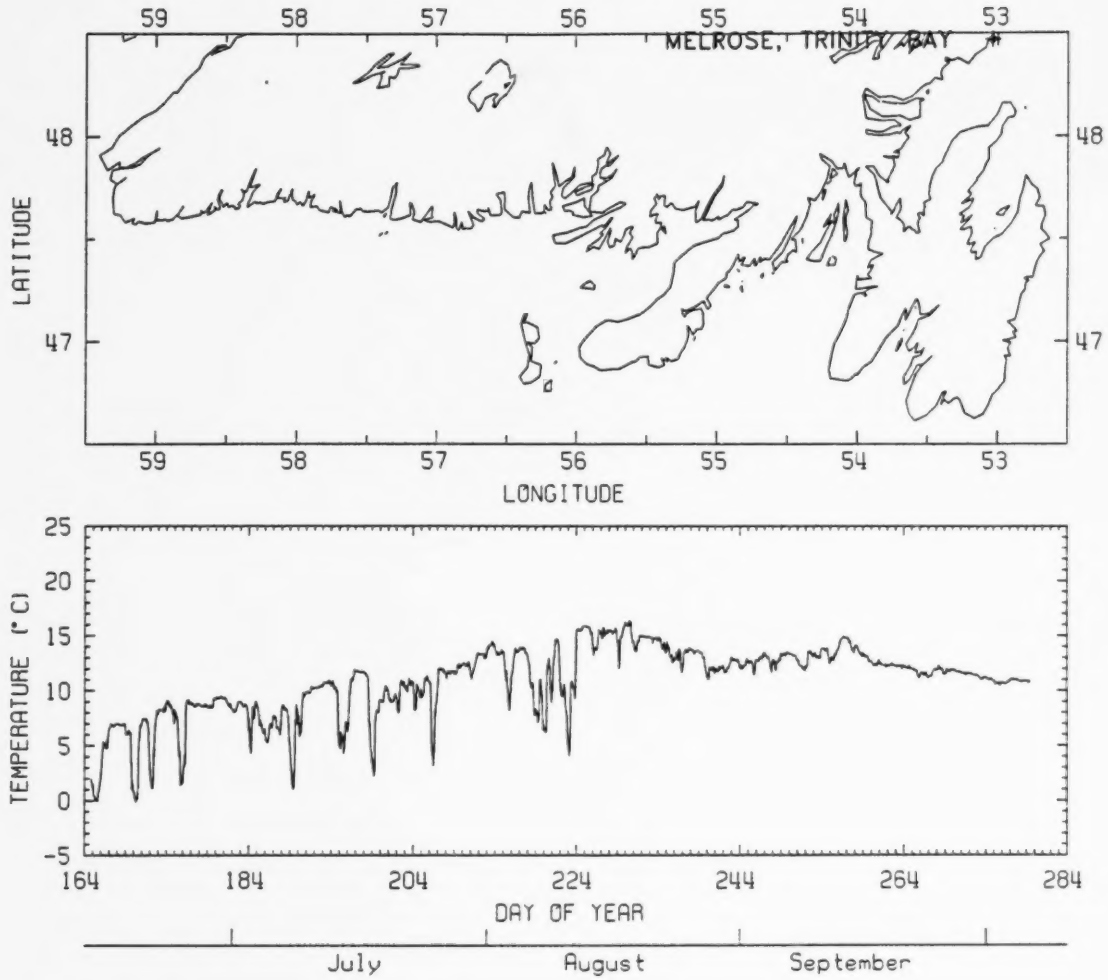
Start: 17-JUN-2001 End: 12-OCT-2001 Inst. S/N:6743

THERMOGRAPH DATA SUMMARY

STATION NAME:	MELROSE, TRINITY BAY
STATION NUMBER:	102
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	005475
LATITUDE:	48.47° N
LONGITUDE:	53.04° W
INSTRUMENT DEPTH:	5 m
WATER DEPTH:	5 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	13-JUN-2001 19:00 GMT
RECOVERY DATE/TIME:	06-OCT-2001 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2001	-0.10	165	9.45	180	6.47	2.81	112.5	47.5	413
JUL-2001	1.00	189	13.40	211	9.28	2.45	287.6	163.6	744
AUG-2001	4.05	223	16.35	230	13.01	2.25	403.4	279.4	744
SEP-2001	11.00	273	14.90	256	12.51	0.87	375.3	255.3	720
OCT-2001	10.45	275	11.20	274	10.86	0.16	65.1	41.1	132
T.PERIOD	-0.10	165	16.35	230	10.79	3.15	1244.0	787.0	2753



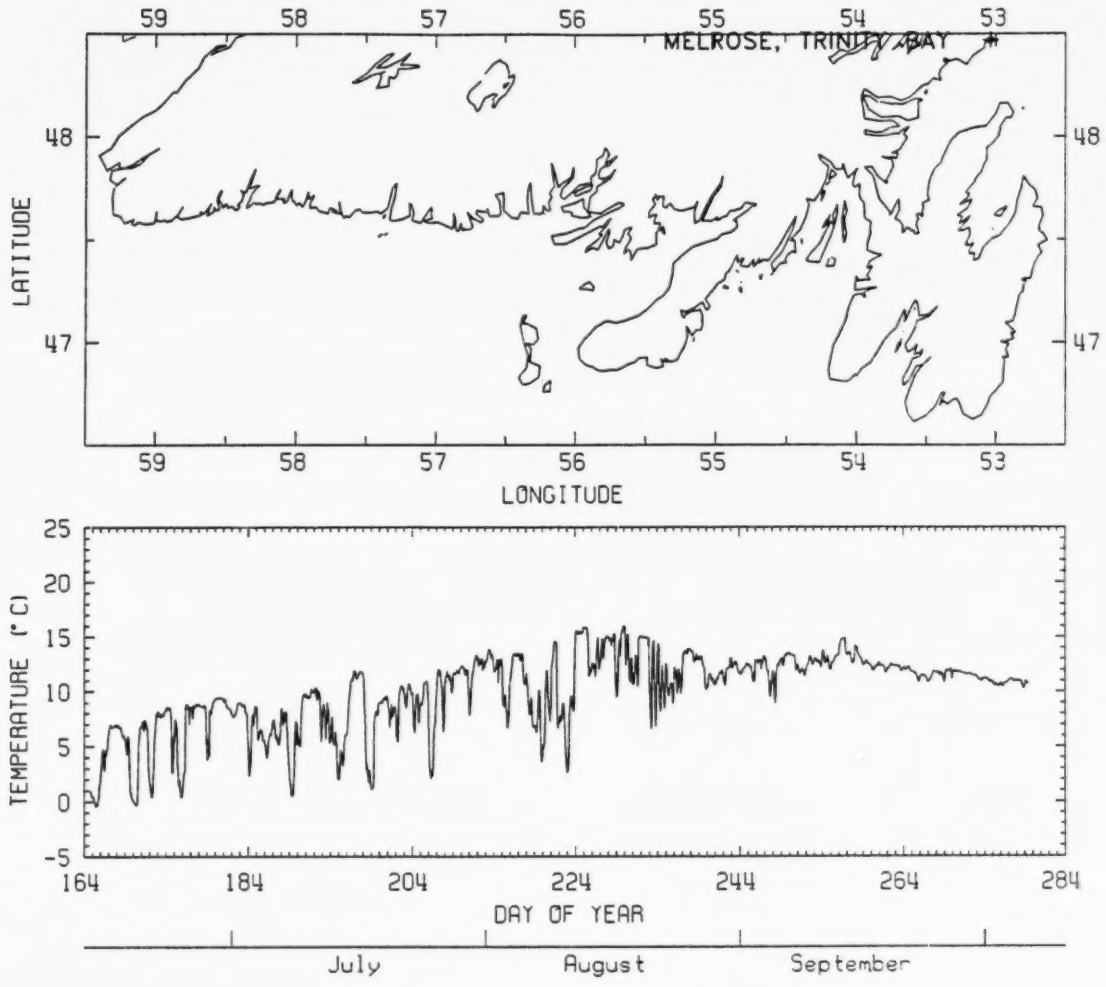
Start: 13-JUN-2001 End: 6-OCT-2001 Inst. S/N:5475

THERMOGRAPH DATA SUMMARY

STATION NAME:	MELROSE, TRINITY BAY
STATION NUMBER:	102
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	008972
LATITUDE:	48.47° N
LONGITUDE:	53.04° W
INSTRUMENT DEPTH:	15 m
WATER DEPTH:	15 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	13-JUN-2001 19:00 GMT
RECOVERY DATE/TIME:	06-OCT-2001 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2001	-0.45	165	9.45	180	5.80	3.09	100.3	38.7	413
JUL-2001	0.45	189	13.30	211	8.18	2.90	253.4	130.1	744
AUG-2001	2.60	223	16.00	229	11.70	2.67	362.8	238.8	744
SEP-2001	8.90	248	14.85	256	12.23	0.85	366.8	246.8	720
OCT-2001	10.30	278	11.25	274	10.84	0.23	65.0	41.0	132
T.PERIOD	-0.45	165	16.00	229	9.96	3.39	1148.4	695.5	2753



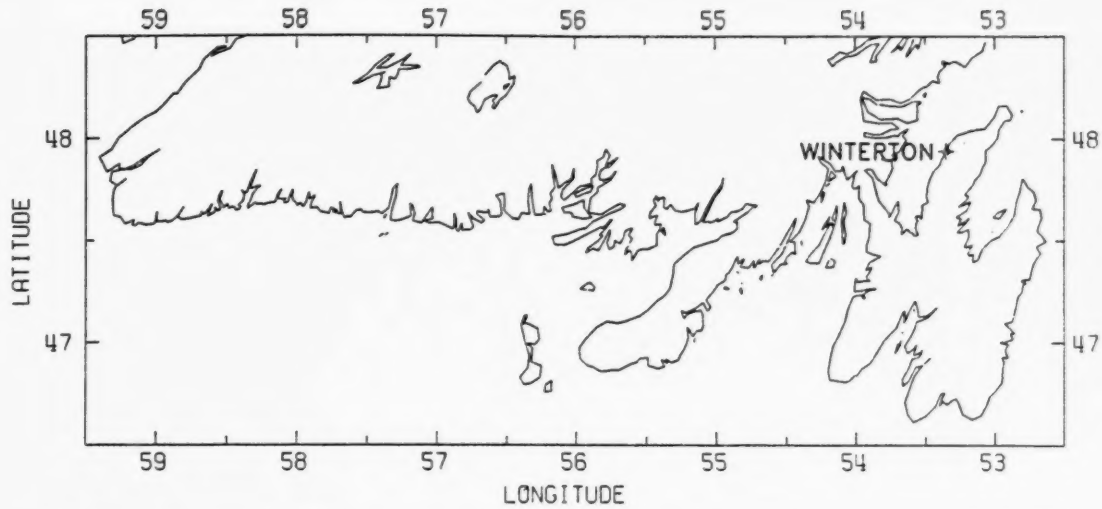
Start: 13-JUN-2001 End: 6-OCT-2001 Inst. S/N:8972

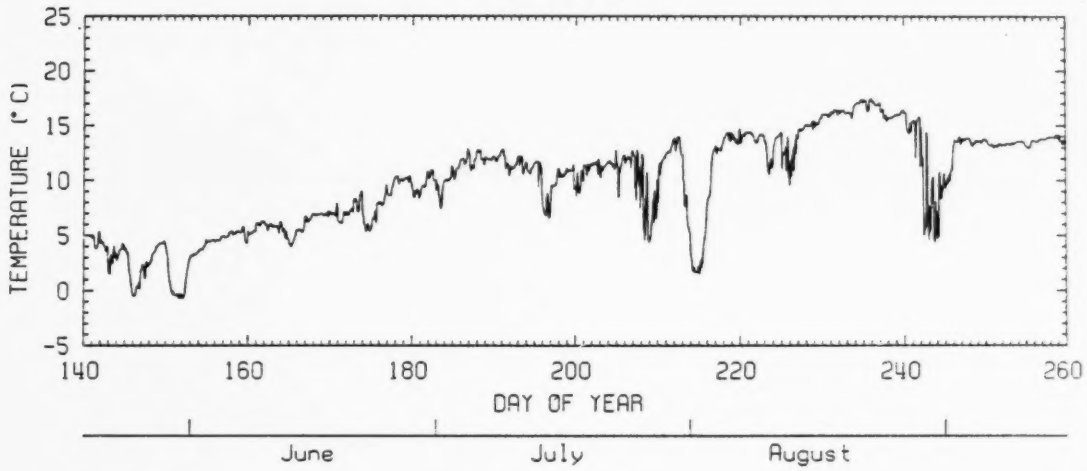
THERMOGRAPH DATA SUMMARY

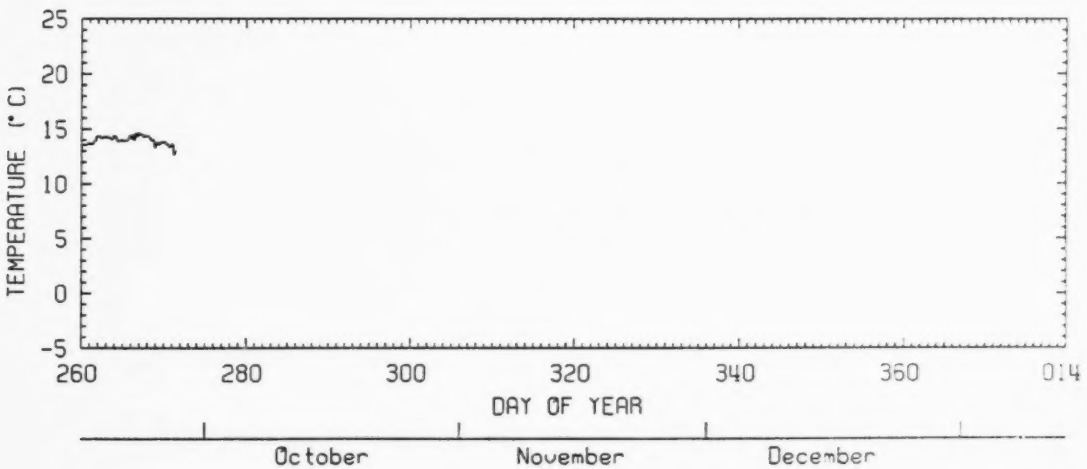
STATION NAME:	WINTERTON
STATION NUMBER:	189
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007943
LATITUDE:	47.94° N
LONGITUDE:	53.35° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	16 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	19-MAY-2000 22:00 GMT
RECOVERY DATE/TIME:	27-SEP-2000 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2000	-0.75	151	5.35	141	2.41	1.77	34.1	1.6	290
JUN-2000	3.05	153	10.95	182	6.62	1.94	198.5	79.3	720
JUL-2000	3.25	213	13.95	212	10.75	1.84	333.4	209.4	744
AUG-2000	1.50	214	17.45	235	13.37	3.79	414.3	292.4	744
SEP-2000	9.25	245	14.65	266	13.59	0.77	366.5	258.5	636
T.PERIOD	-0.75	151	17.45	235	10.23	4.34	1346.8	841.3	3134







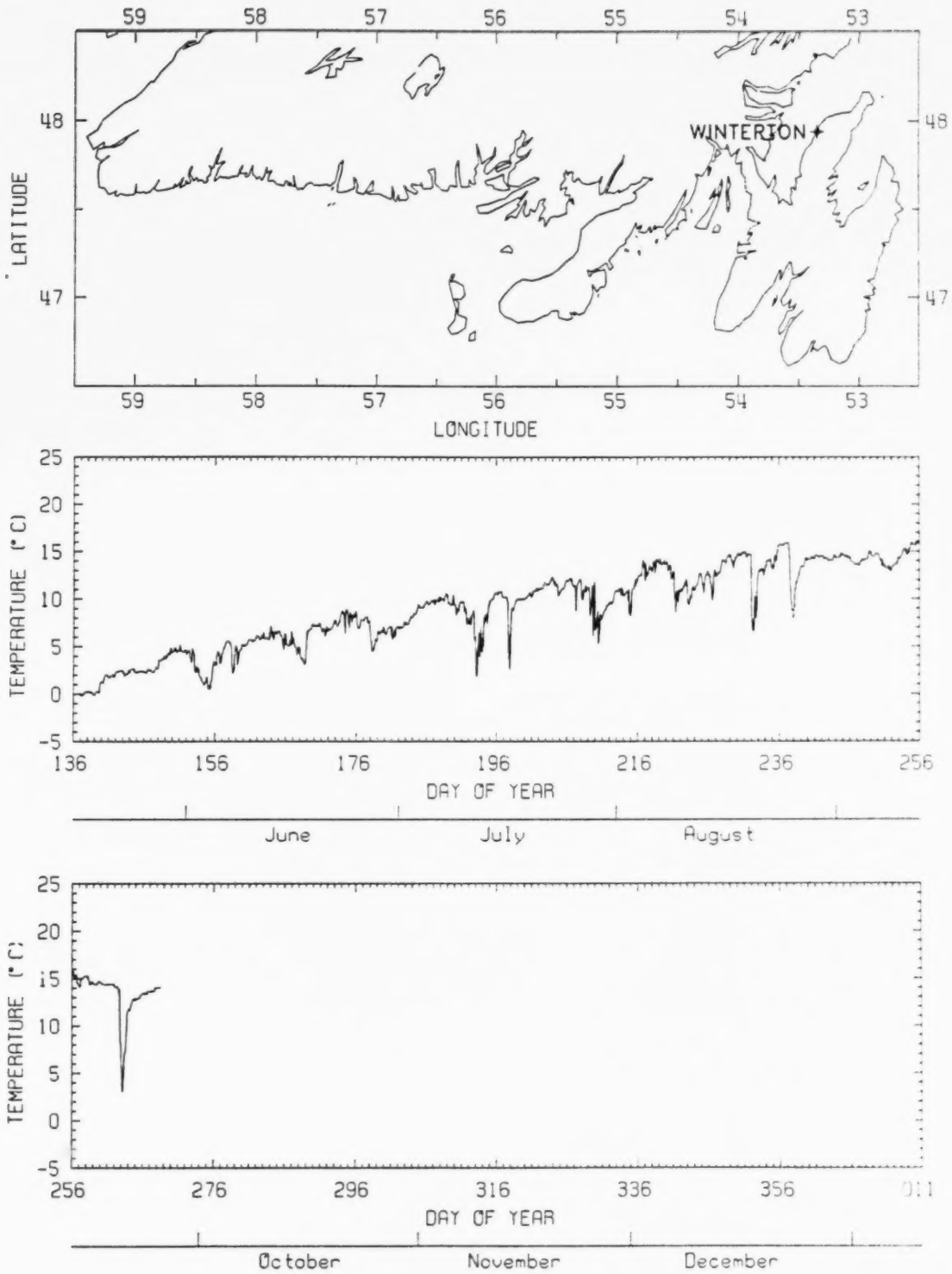
Start: 19-MAY-2000 End: 27-SEP-2000 Inst. S/N: 7943

THERMOGRAPH DATA SUMMARY

STATION NAME:	WINTERTON
STATION NUMBER:	189
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	006593
LATITUDE:	47.94° N
LONGITUDE:	53.35° W
INSTRUMENT DEPTH:	6 m
WATER DEPTH:	13 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	16-MAY-2001 16:00 GMT
RECOVERY DATE/TIME:	25-SEP-2001 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2001	-0.15	137	5.15	151	2.31	1.45	35.4	1.3	368
JUN-2001	0.50	155	8.85	174	5.61	1.82	168.2	55.1	720
JUL-2001	1.80	193	12.25	203	9.47	1.77	293.4	169.4	744
AUG-2001	6.60	232	15.95	237	12.82	1.83	397.5	273.5	744
SEP-2001	3.00	263	16.10	255	13.89	1.74	347.4	247.4	589
T.PERIOD	-0.15	137	16.10	255	9.37	4.33	1242.0	746.8	3165



Start:16-MAY-2001 End:25-SEP-2001 Inst. S/N:6593

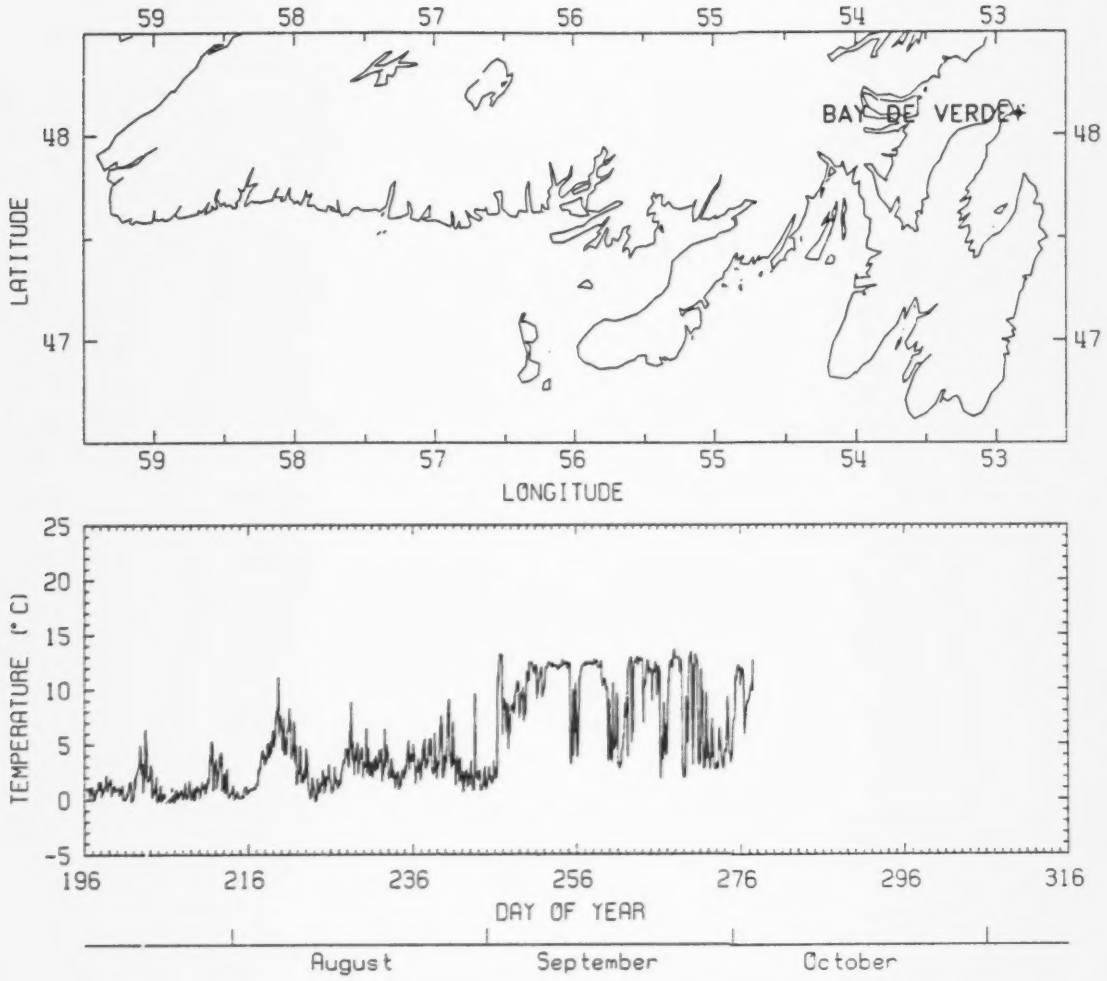
Appendix 9. Time Series Plots and Monthly Statistics from Unit Area 3Lf.

THERMOGRAPH DATA SUMMARY

STATION NAME:	BAY DE VERDE
STATION NUMBER:	217
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	006782
LATITUDE:	48.10° N
LONGITUDE:	52.84° W
INSTRUMENT DEPTH:	31 m
WATER DEPTH:	33 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	14-JUL-2000 10:00 GMT
RECOVERY DATE/TIME:	03-OCT-2000 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2000	-0.25	201	6.35	203	1.14	1.14	20.3	0.0	422
AUG-2000	-0.20	224	11.10	219	2.95	1.81	91.4	6.8	744
SEP-2000	1.40	245	13.60	267	8.95	3.66	268.5	150.6	720
OCT-2000	5.85	276	12.65	277	9.87	1.82	29.8	17.8	60
T.PERIOD	-0.25	201	13.60	267	4.99	4.24	409.9	175.2	1946



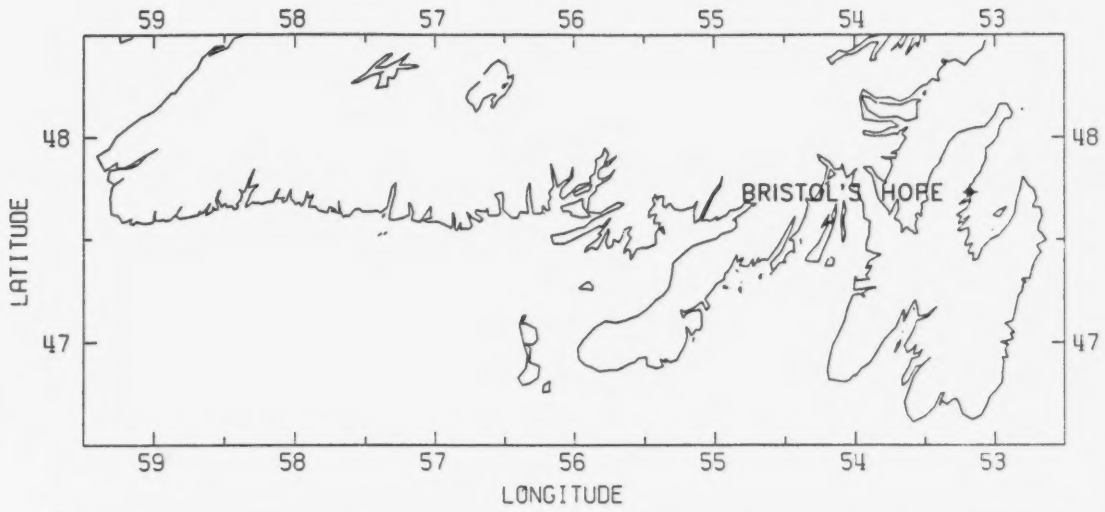
Start: 14-JUL-2000 End: 3-OCT-2000 Inst. S/N:6782

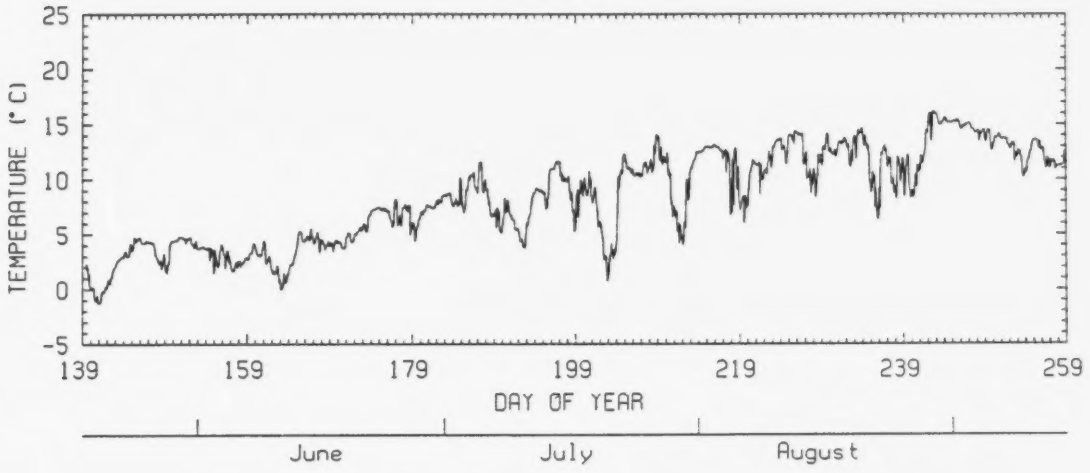
THERMOGRAPH DATA SUMMARY

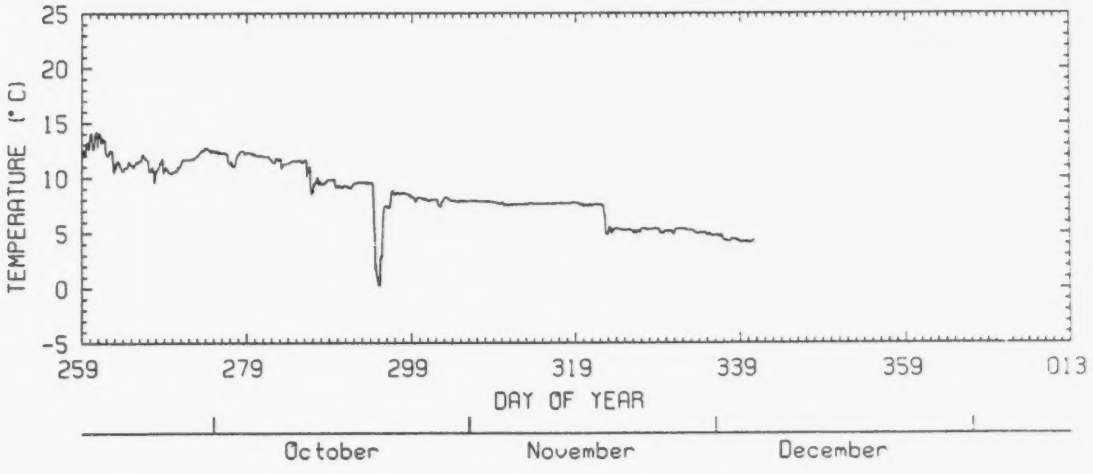
STATION NAME:	BRISTOL'S HOPE
STATION NUMBER:	101
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	006594
LATITUDE:	47.73° N
LONGITUDE:	53.18° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	10 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	18-MAY-2000 11:00 GMT
RECOVERY DATE/TIME:	05-DEC-2000 18:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2000	-1.25	140	4.75	145	2.83	1.78	39.8	1.9	325
JUN-2000	-0.05	163	8.55	182	4.56	2.01	136.8	33.1	720
JUL-2000	0.70	202	14.05	208	8.52	2.55	264.3	141.6	744
AUG-2000	6.00	219	16.15	242	12.03	2.08	372.8	248.8	744
SEP-2000	9.55	267	15.45	245	12.42	1.38	372.5	252.5	720
OCT-2000	0.20	295	12.50	275	9.58	2.17	297.0	173.0	744
NOV-2000	4.70	335	7.95	306	6.56	1.24	196.8	76.8	720
DEC-2000	4.15	339	4.90	336	4.37	0.21	21.8	1.8	115
T.PERIOD	-1.25	140	16.15	242	8.44	3.68	1701.7	929.5	4832







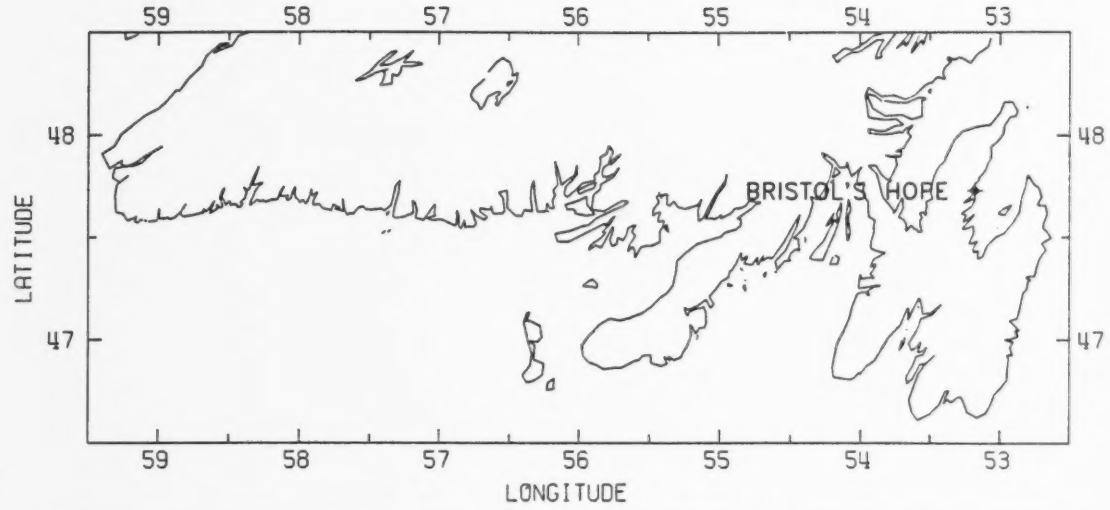
Start:18-MAY-2000 End: 5-DEC-2000 Inst. S/N:6594

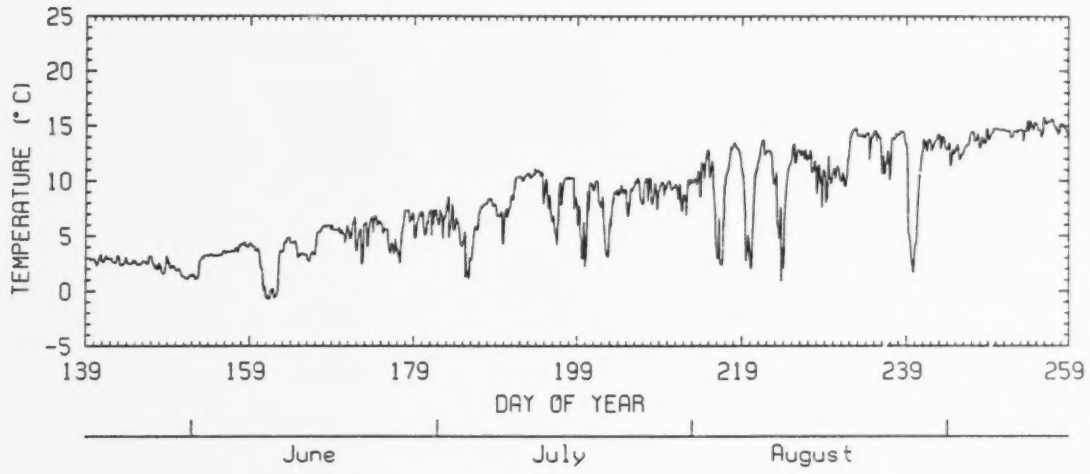
THERMOGRAPH DATA SUMMARY

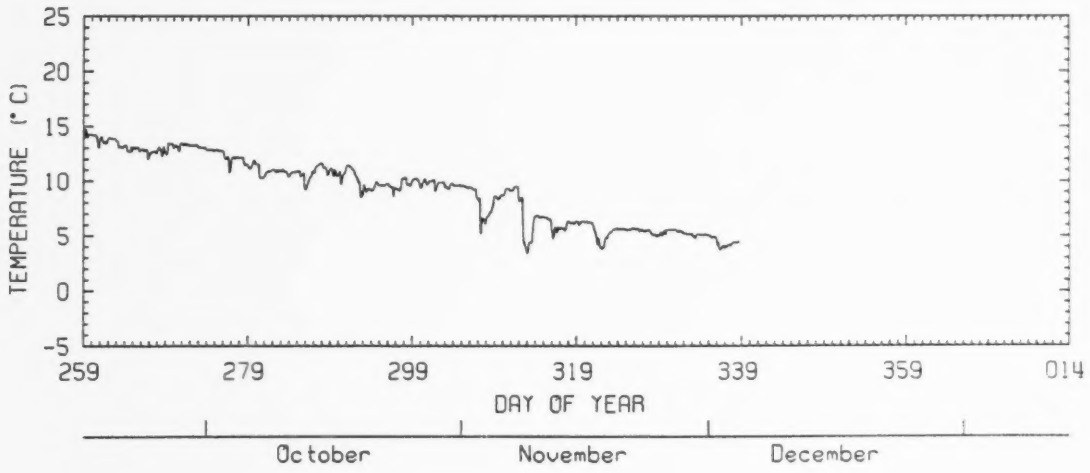
STATION NAME:	BRISTOL'S HOPE
STATION NUMBER:	101
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007820
LATITUDE:	47.73° N
LONGITUDE:	53.18° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	20 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	19-MAY-2001 13:00 GMT
RECOVERY DATE/TIME:	04-DEC-2001 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2001	1.05	151	3.35	140	2.40	0.53	31.4	0.0	299
JUN-2001	-0.75	161	7.35	178	4.30	1.83	129.2	25.0	720
JUL-2001	1.10	185	11.15	193	8.01	2.09	248.2	125.3	744
AUG-2001	0.90	223	14.80	232	10.99	3.18	340.8	216.8	744
SEP-2001	11.30	244	15.80	256	13.74	0.88	412.1	292.1	720
OCT-2001	8.50	292	12.90	274	10.56	1.03	327.5	203.5	744
NOV-2001	3.35	313	9.60	305	6.24	1.51	187.3	67.3	720
DEC-2001	3.70	336	5.05	335	4.36	0.38	17.5	1.5	90
T.PERIOD	-0.75	161	15.80	256	8.49	3.91	1694.0	931.4	4781







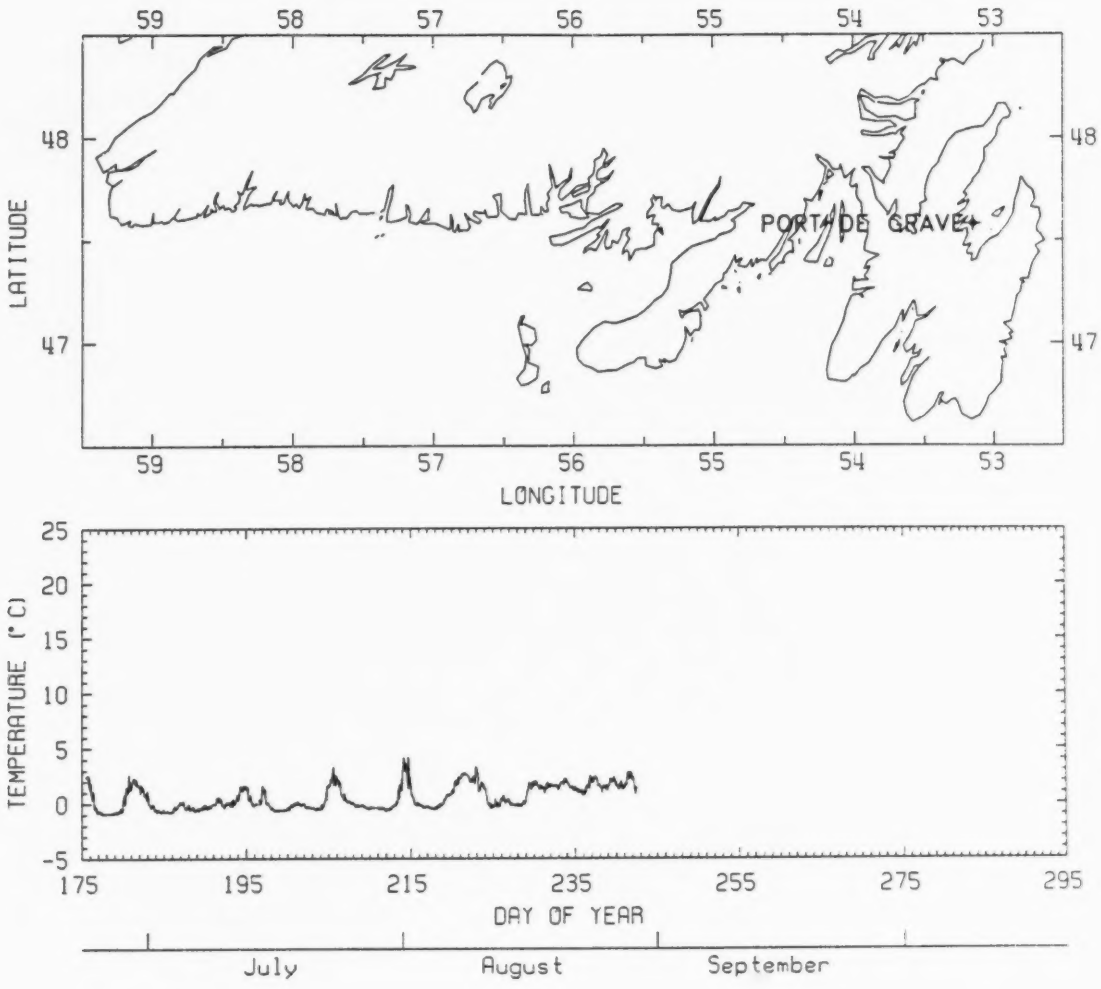
Start:19-MAY-2001 End: 4-DEC-2001 Inst. S/N:7820

THERMOGRAPH DATA SUMMARY

STATION NAME:	PORT DE GRAVE
STATION NUMBER:	215
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	002180
LATITUDE:	47.58° N
LONGITUDE:	53.15° W
INSTRUMENT DEPTH:	23 m
WATER DEPTH:	24 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	23-JUN-2000 11:00 GMT
RECOVERY DATE/TIME:	29-AUG-2000 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2000	-1.00	177	2.60	175	0.39	1.20	6.4	0.0	181
JUL-2000	-0.80	184	3.30	205	-0.02	0.71	7.1	0.0	744
AUG-2000	-0.60	217	4.20	214	1.15	1.00	34.9	0.0	685
T.PERIOD	-1.00	177	4.20	214	0.53	1.06	48.4	0.0	1610



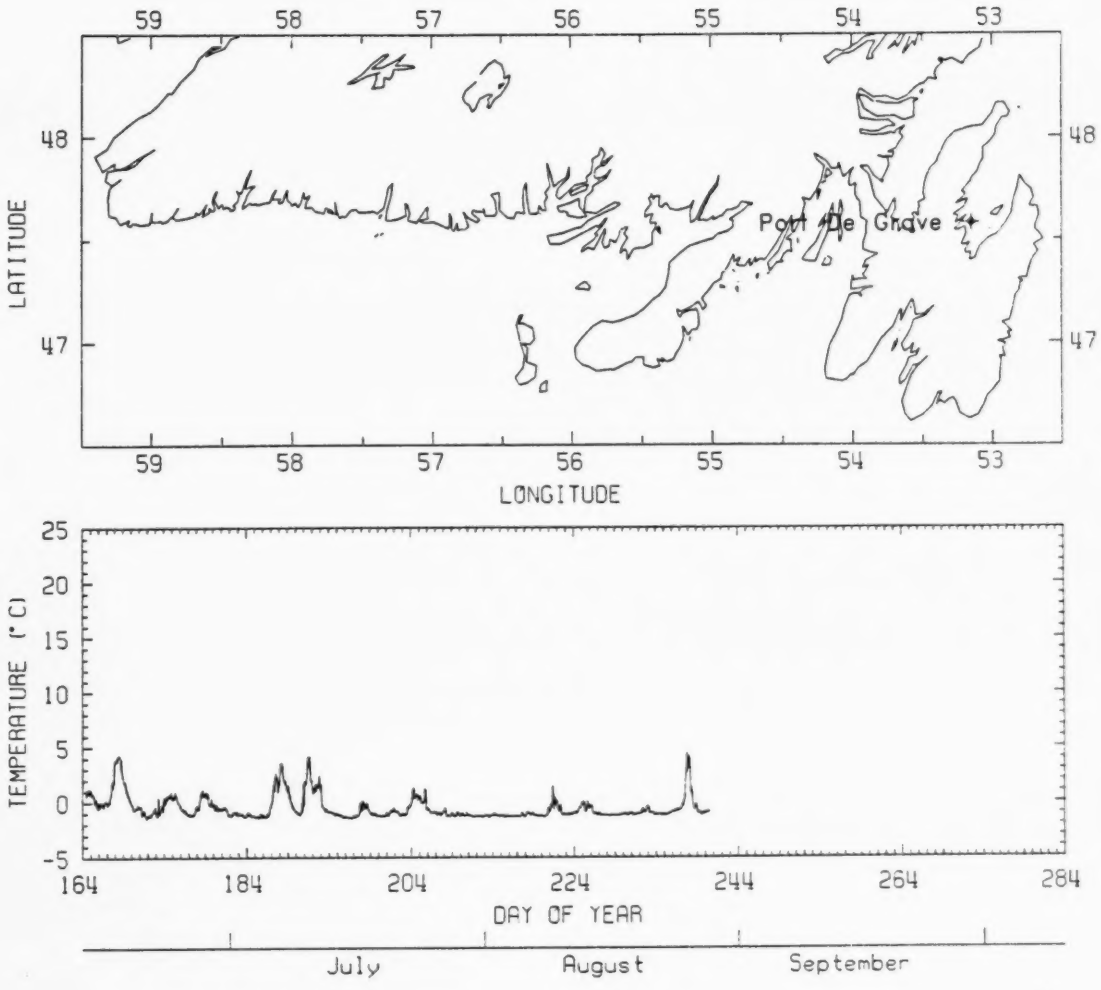
Start: 23-JUN-2000 End: 29-AUG-2000 Inst. S/N:2180

THERMOGRAPH DATA SUMMARY

STATION NAME:	Port De Grave
STATION NUMBER:	215
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	004347
LATITUDE:	47.58° N
LONGITUDE:	53.15° W
INSTRUMENT DEPTH:	44 m
WATER DEPTH:	46 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	13-JUN-2001 10:00 GMT
RECOVERY DATE/TIME:	28-AUG-2001 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2001	-1.50	171	4.30	168	0.07	1.18	7.8	0.0	422
JUL-2001	-1.50	196	4.10	191	-0.54	1.10	8.1	0.0	744
AUG-2001	-1.40	213	4.40	237	-0.87	0.73	1.9	0.0	660
T.PERIOD	-1.50	171	4.40	237	-0.52	1.06	17.8	0.0	1826



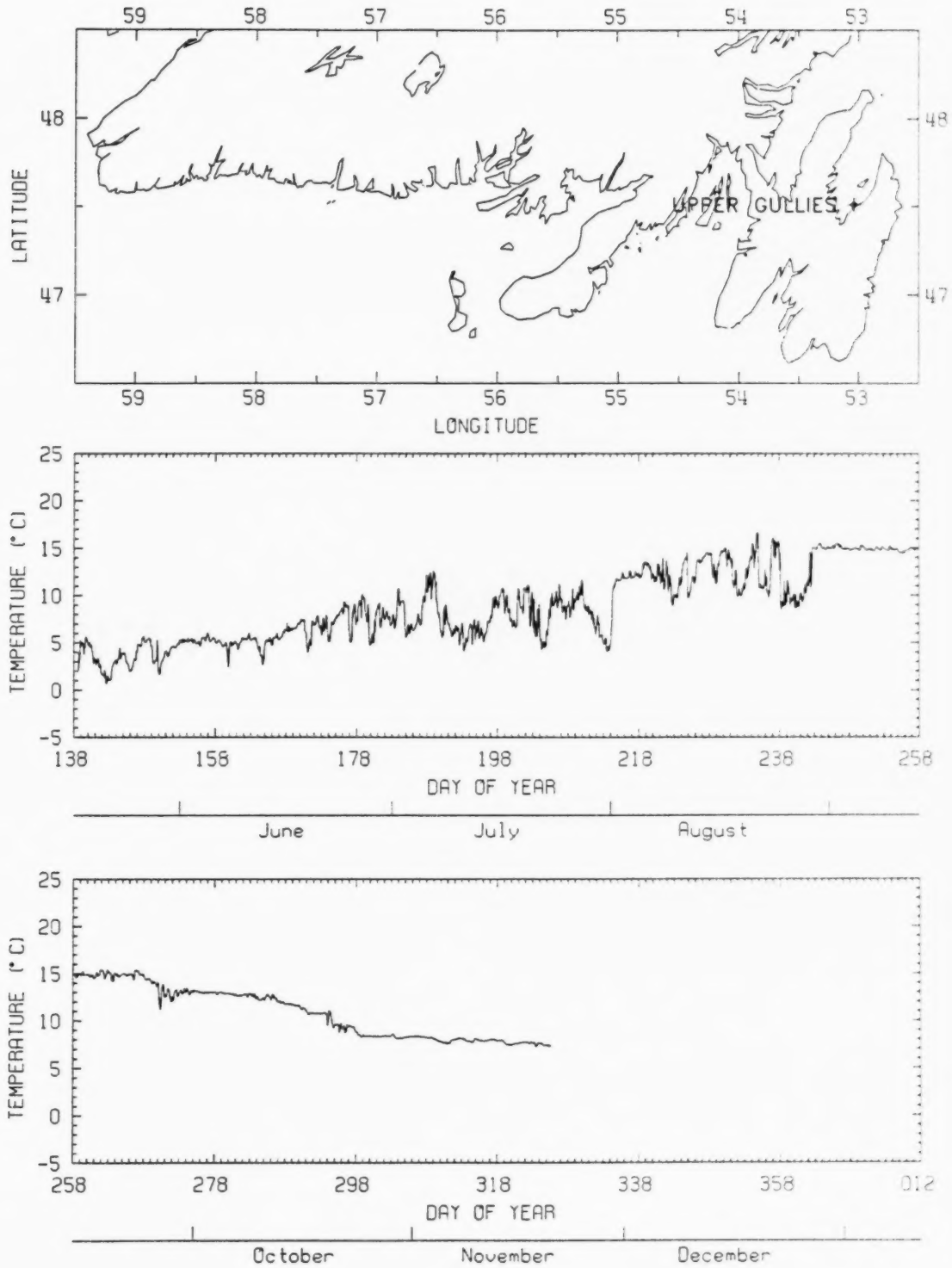
Start: 13-JUN-2001 End: 28-AUG-2001 Inst. S/N:4347

THERMOGRAPH DATA SUMMARY

STATION NAME:	UPPER GULLIES
STATION NUMBER:	106
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007873
LATITUDE:	47.51° N
LONGITUDE:	53.04° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	16 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	17-MAY-2000 15:00 GMT
RECOVERY DATE/TIME:	20-NOV-2000 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2000	0.70	142	5.70	147	3.57	1.24	53.6	4.0	345
JUN-2000	2.40	159	10.15	178	6.15	1.43	184.4	64.6	720
JUL-2000	4.05	213	12.60	188	7.84	1.88	243.1	119.1	744
AUG-2000	4.85	214	16.60	234	12.24	1.95	379.5	255.5	744
SEP-2000	11.20	270	15.50	246	14.53	0.80	435.9	315.9	720
OCT-2000	8.10	303	13.25	275	10.87	1.84	336.9	212.9	744
NOV-2000	7.25	323	8.35	306	7.86	0.27	157.0	77.0	471
T.PERIOD	0.70	142	16.60	234	9.55	3.63	1790.5	1049.2	4488



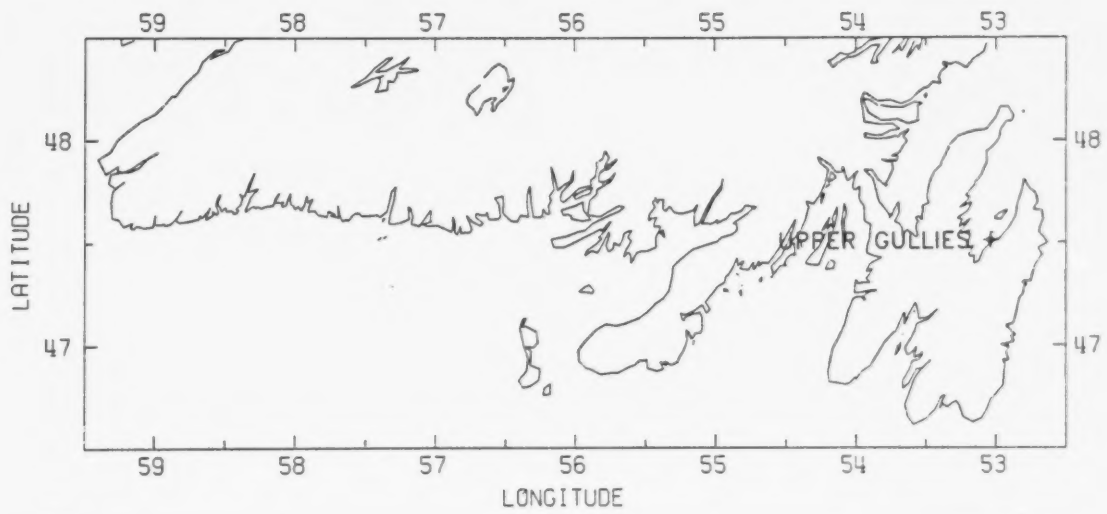
Start:17-MAY-2000 End:20-NOV-2000 Inst. S/N:7873

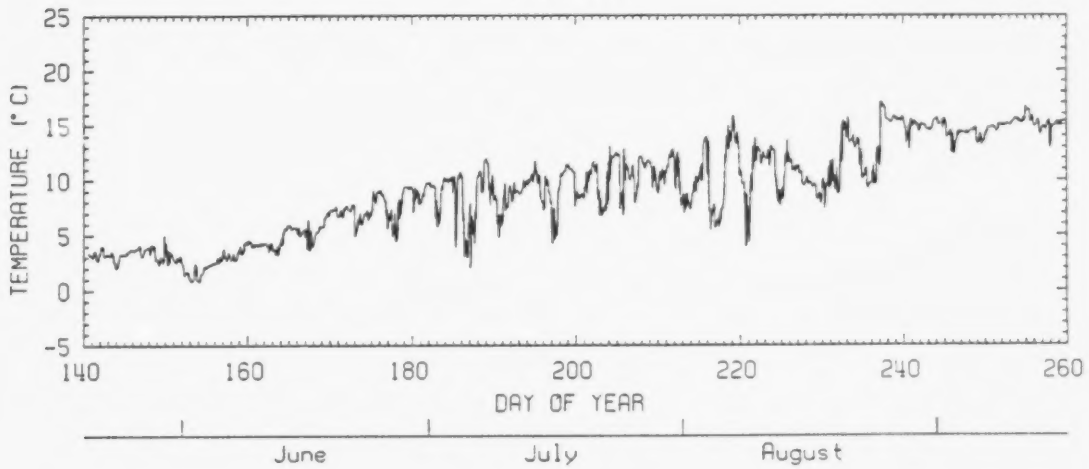
THERMOGRAPH DATA SUMMARY

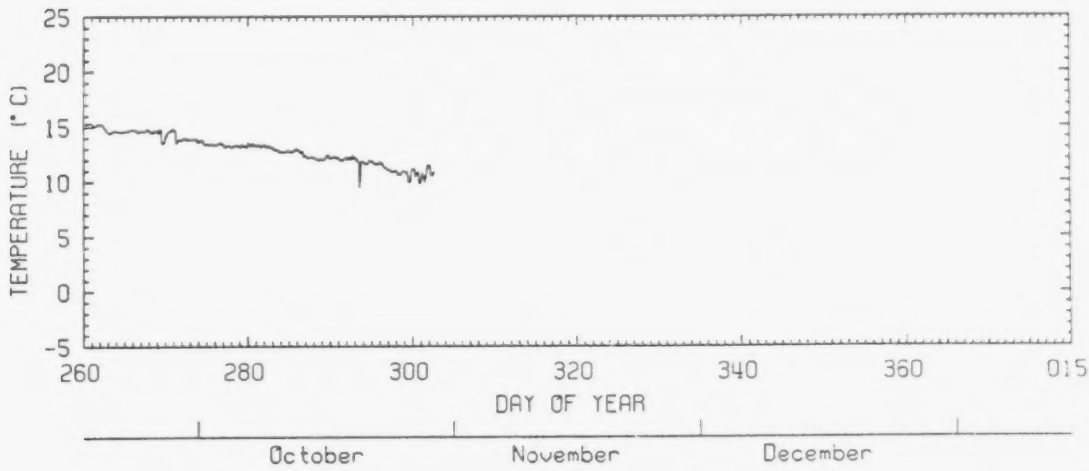
STATION NAME:	UPPER GULLIES
STATION NUMBER:	106
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	006597
LATITUDE:	47.51° N
LONGITUDE:	53.04° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	10 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	20-MAY-2001 14:00 GMT
RECOVERY DATE/TIME:	29-OCT-2001 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2001	2.05	143	4.95	149	3.23	0.48	38.8	0.0	274
JUN-2001	0.70	154	9.75	181	5.31	2.34	159.4	52.2	720
JUL-2001	2.05	187	13.05	204	9.42	1.96	292.0	168.0	744
AUG-2001	3.95	220	17.10	237	11.62	2.81	360.2	236.2	744
SEP-2001	12.35	246	16.65	255	14.66	0.64	439.7	319.7	720
OCT-2001	9.45	293	13.80	274	12.25	0.98	354.9	238.9	688
T. PERIOD	0.70	154	17.10	237	10.11	4.03	1645.0	1015.0	3890







Start:20-MAY-2001 End:29-OCT-2001 Inst. S/N:6597

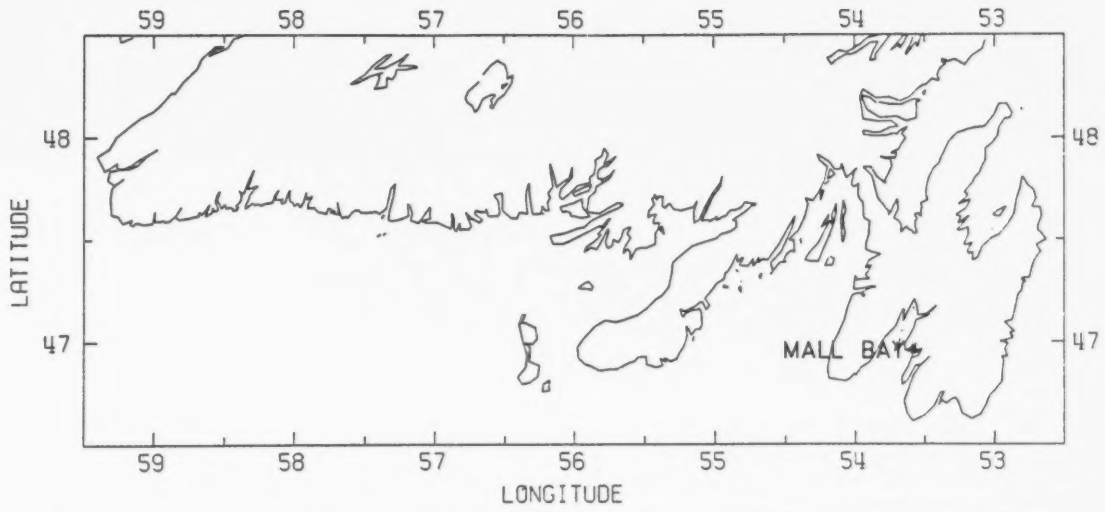
Appendix 10. Time Series Plots and Monthly Statistics from Unit Area 3Lq.

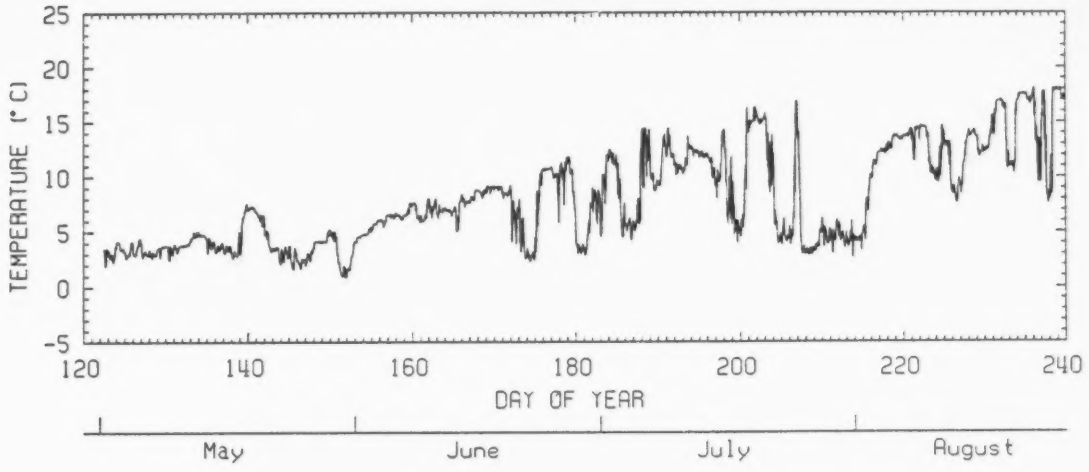
THERMOGRAPH DATA SUMMARY

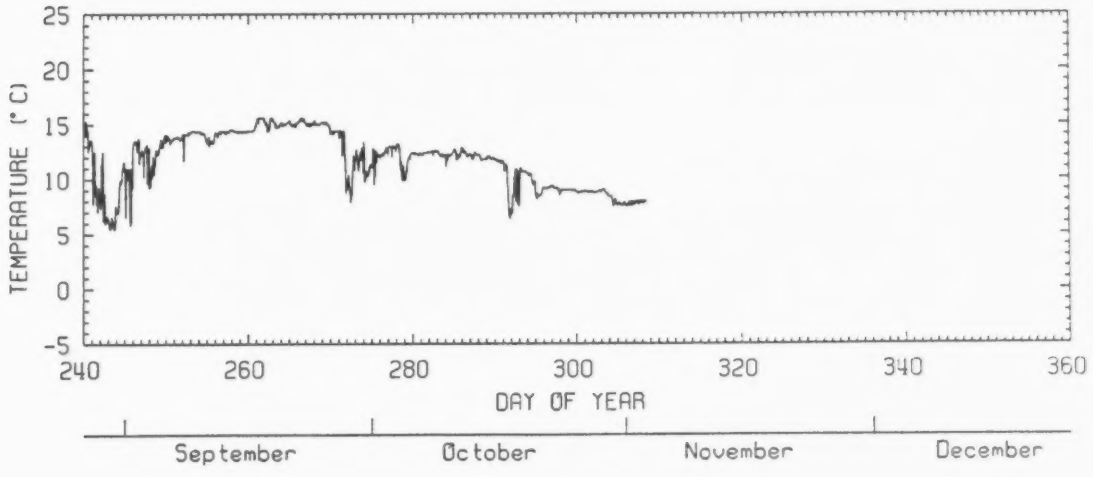
STATION NAME:	MALL BAY
STATION NUMBER:	221
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	003824
LATITUDE:	46.96° N
LONGITUDE:	53.59° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	22 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	29-APR-2000 08:00 GMT
RECOVERY DATE/TIME:	03-NOV-2000 10:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2000	0.90	151	7.60	139	3.70	1.26	114.3	9.7	732
JUN-2000	2.30	174	11.80	179	7.06	2.11	211.7	93.2	720
JUL-2000	2.70	213	16.90	206	8.80	3.90	272.7	149.5	744
AUG-2000	3.30	214	18.10	236	12.23	3.56	379.2	255.2	744
SEP-2000	5.80	245	15.60	261	13.67	1.70	410.0	290.0	720
OCT-2000	6.40	291	13.20	278	10.62	1.75	329.1	205.1	744
NOV-2000	7.60	306	8.00	306	7.83	0.16	23.6	11.6	59
T.PERIOD	0.90	151	18.10	236	9.33	4.17	1740.5	1014.4	4463







Start:29-APR-2000 End: 3-NOV-2000 Inst. S/N:3824

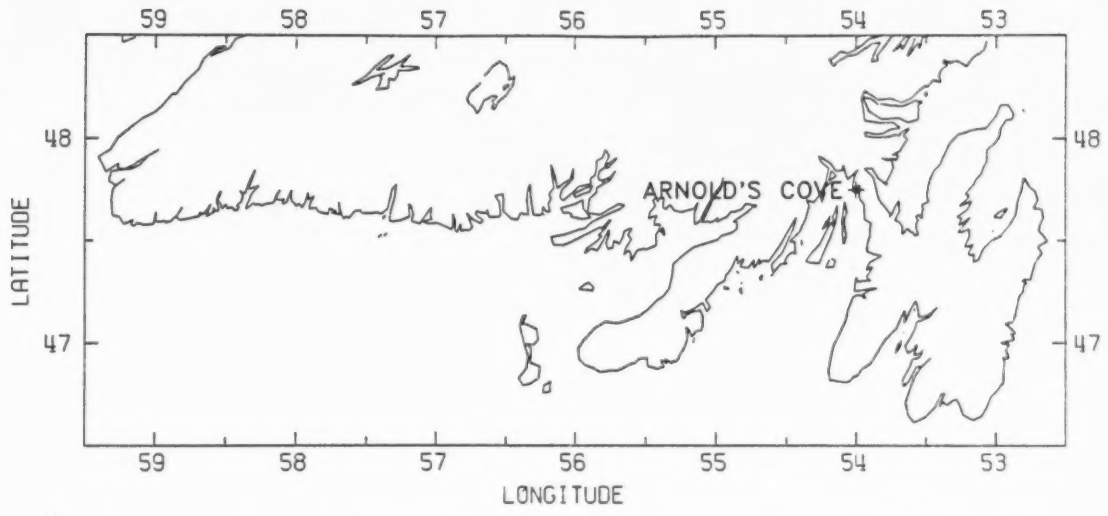
Appendix 11. Time Series Plots and Monthly Statistics from Unit Area 3PSc.

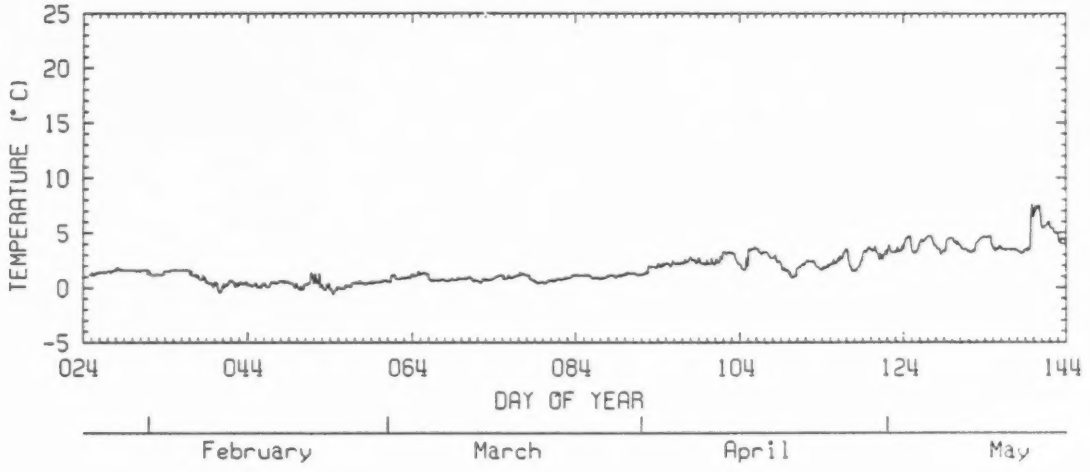
THERMOGRAPH DATA SUMMARY

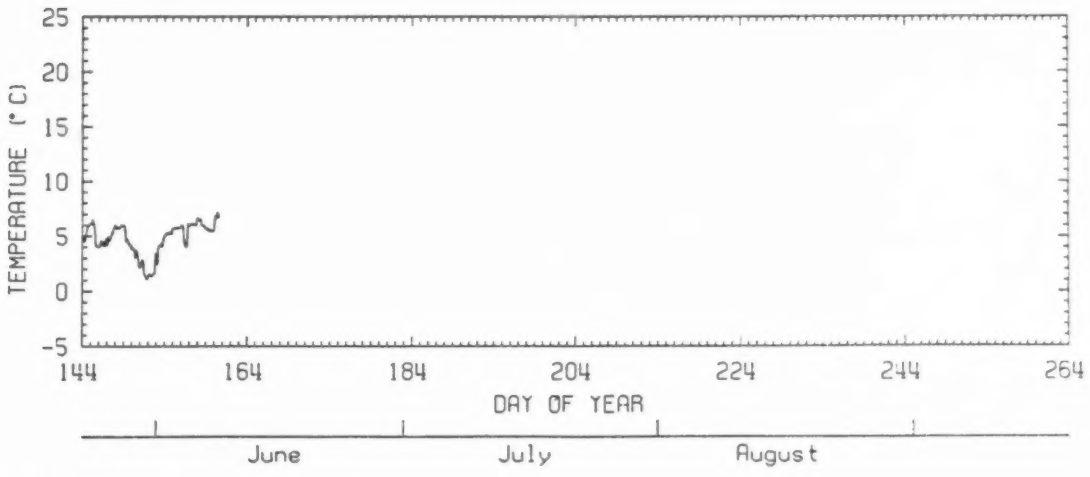
STATION NAME:	ARNOLD'S COVE
STATION NUMBER:	127
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	003810
LATITUDE:	47.75° N
LONGITUDE:	54.00° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	24-JAN-2000 18:00 GMT
RECOVERY DATE/TIME:	08-JUN-2000 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

date	min (°C)	day	max (°C)	day	mean (°C)	std.	degree DEV.	degree Day 0	no. Day 4 samp.
JAN-2000	1.20	24	1.90	28	1.50	0.14	11.8	0.0	174
FEB-2000	-0.60	54	1.60	34	0.53	0.52	15.8	0.0	696
MAR-2000	0.40	72	1.50	64	0.90	0.24	27.9	0.0	744
APR-2000	0.90	110	3.80	120	2.38	0.63	71.4	0.0	720
MAY-2000	1.10	151	7.60	139	4.16	1.18	128.9	15.7	744
JUN-2000	2.40	153	7.20	160	5.55	0.84	44.9	12.9	182
T.PERIOD	-0.60	54	7.60	139	2.18	1.74	300.7	28.6	3260







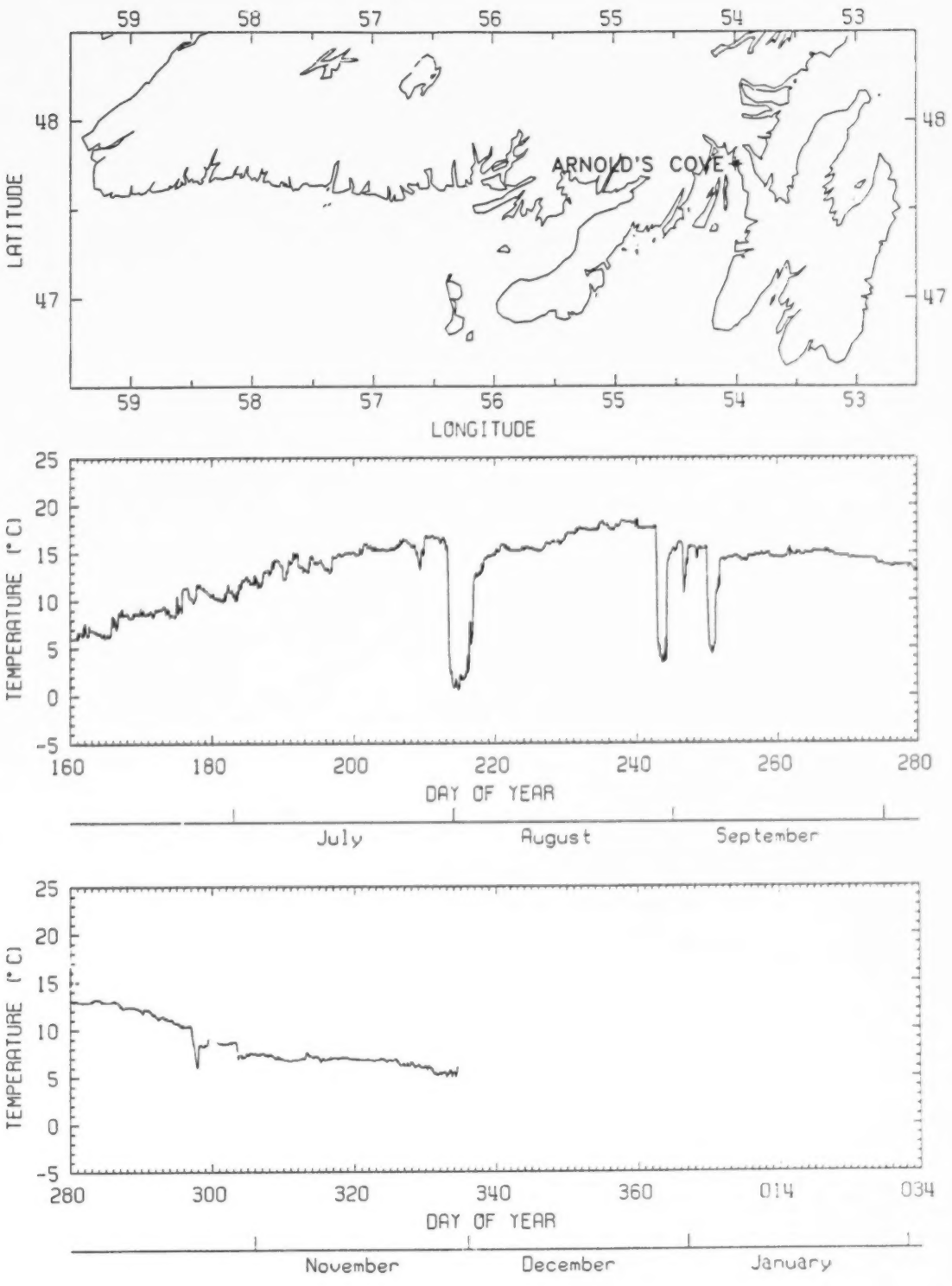
Start:24-JAN-2000 End: 8-JUN-2000 Inst. S/N:3810

THERMOGRAPH DATA SUMMARY

STATION NAME:	ARNOLD'S COVE
STATION NUMBER:	127
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	004354
LATITUDE:	47.75° N
LONGITUDE:	54.00° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	08-JUN-2000 16:00 GMT
RECOVERY DATE/TIME:	29-NOV-2000 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

date	min (°C)	day	max (°C)	day	mean (°C)	std.	degree DEV.	degree Day 0	no. Day 4 samp.
JUN-2000	6.00	160	11.70	177	8.82	1.61	201.0	109.0	536
JUL-2000	1.20	213	16.80	210	14.13	2.19	437.9	313.9	744
AUG-2000	0.60	214	18.50	240	14.53	4.74	450.3	331.3	744
SEP-2000	4.30	250	16.10	246	14.31	1.88	429.4	309.4	720
OCT-2000	6.00	297	13.90	275	11.18	2.17	346.6	222.7	744
NOV-2000	5.00	332	7.60	313	6.63	0.59	191.7	75.7	687
T.PERIOD	0.60	214	18.50	240	11.79	3.96	2057.0	1362.0	4175



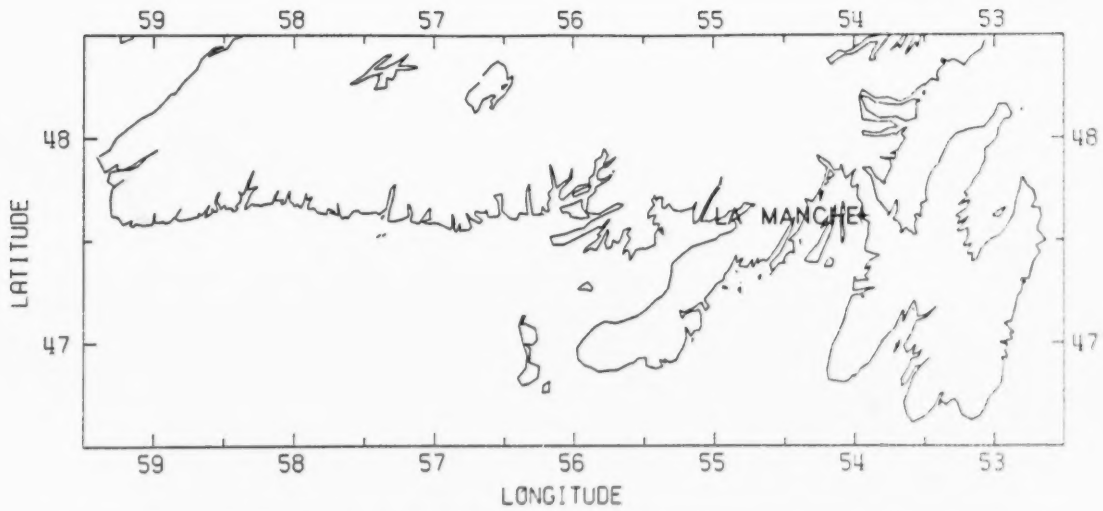
Start: 8-JUN-2000 End:29-NOV-2000 Inst. S/N:4354

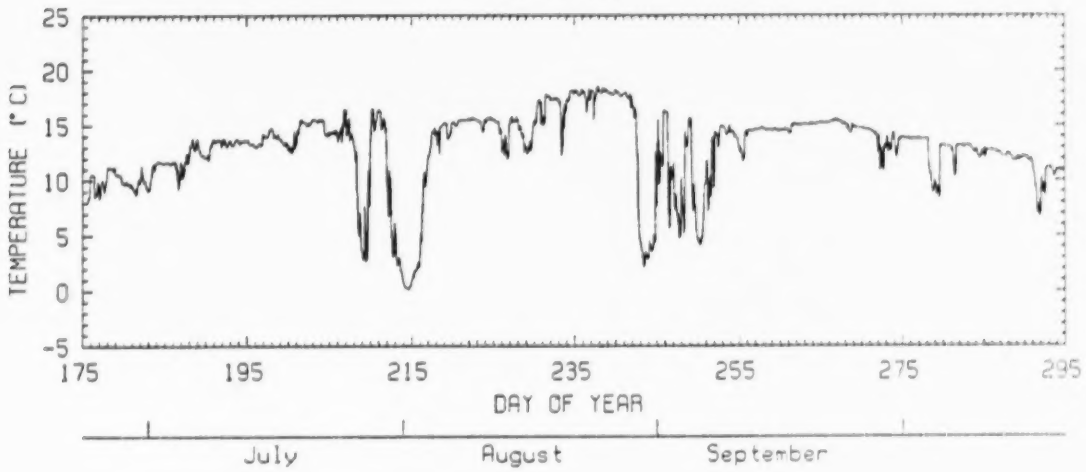
THERMOGRAPH DATA SUMMARY

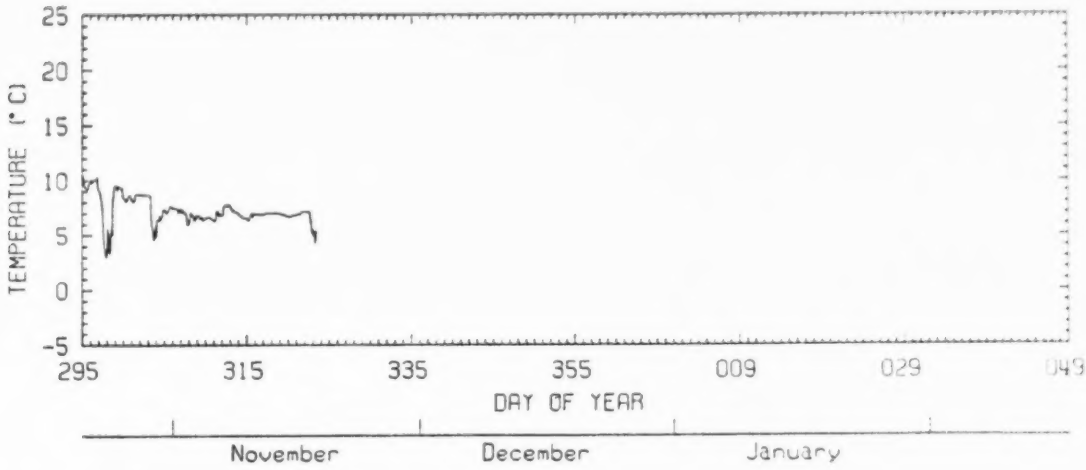
STATION NAME:	LA MANCHE
STATION NUMBER:	104
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	005477
LATITUDE:	47.62° N
LONGITUDE:	53.95° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	31 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	23-JUN-2000 14:00 GMT
RECOVERY DATE/TIME:	18-NOV-2000 10:00 GMT

MONTHLY TEMPERATURE STATISTICS

date	min (°C)	day	max (°C)	day	mean (°C)	std.	degree DEV.	degrec Day 0	no. Day 4
samp. JUN-2000	8.10	175	11.30	182	9.86	0.77	78.3	46.3	178
JUL-2000	0.95	213	16.45	206	12.48	3.14	386.9	264.4	744
AUG-2000	0.15	214	18.45	237	13.87	4.99	430.0	312.7	744
SEP-2000	4.10	250	16.30	245	13.34	2.75	400.1	280.1	720
OCT-2000	3.00	297	13.90	275	10.58	2.54	328.0	204.0	744
NOV-2000	4.25	323	7.75	312	6.83	0.47	121.9	49.9	419
T.PERIOD	0.15	214	18.45	237	11.75	3.89	1745.2	1157.4	3549







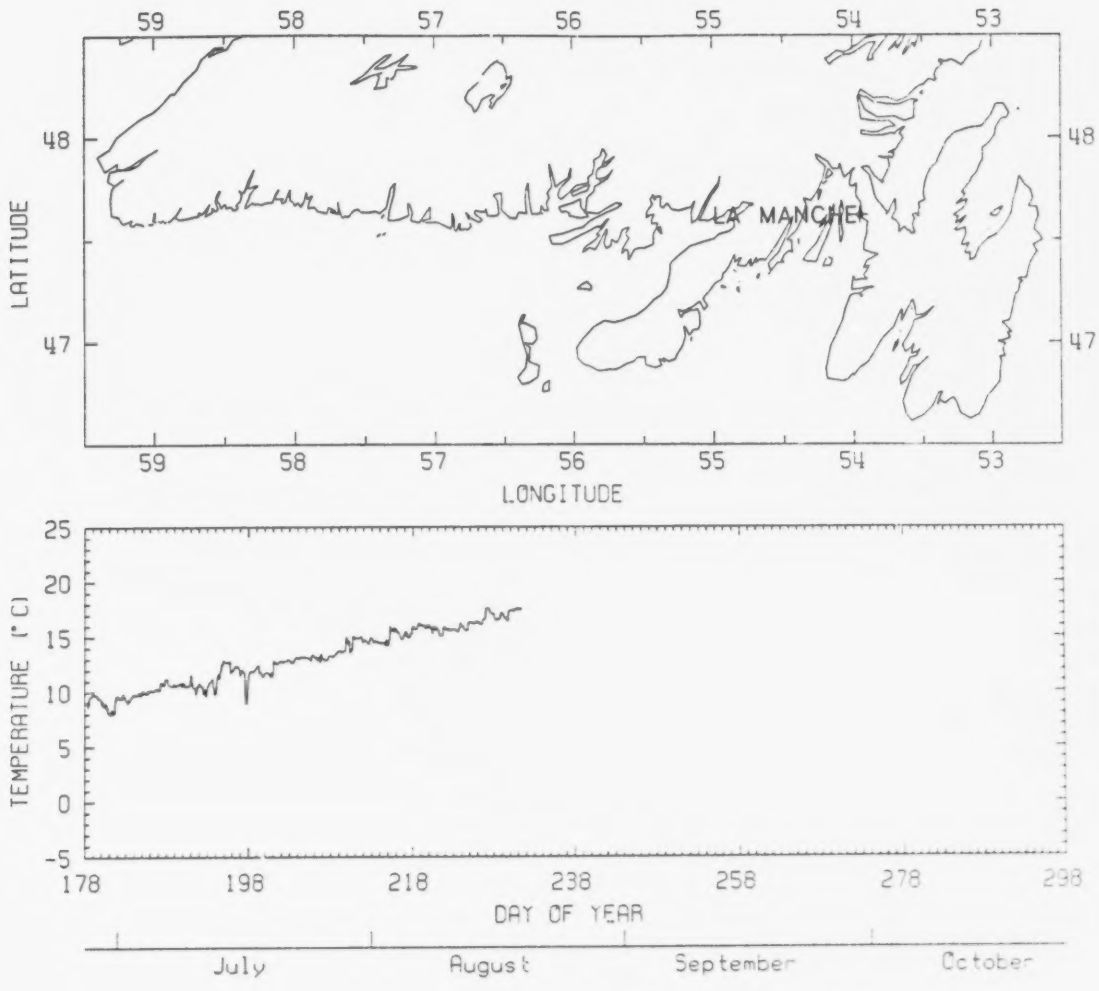
Start:23-JUN-2000 End:18-NOV-2000 Inst. S/N:5477

THERMOGRAPH DATA SUMMARY

STATION NAME:	LA MANCHE
STATION NUMBER:	104
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007934
LATITUDE:	47.62° N
LONGITUDE:	53.95° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	31 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	27-JUN-2001 10:00 GMT
RECOVERY DATE/TIME:	19-AUG-2001 07:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2001	7.90	181	9.80	178	9.02	0.62	36.2	20.2	86
JUL-2001	8.90	197	15.05	210	11.85	1.58	367.3	243.3	744
AUG-2001	14.20	214	17.65	231	15.92	0.87	303.5	227.5	440
T.PERIOD	7.90	181	17.65	231	13.07	2.56	707.1	491.1	1270



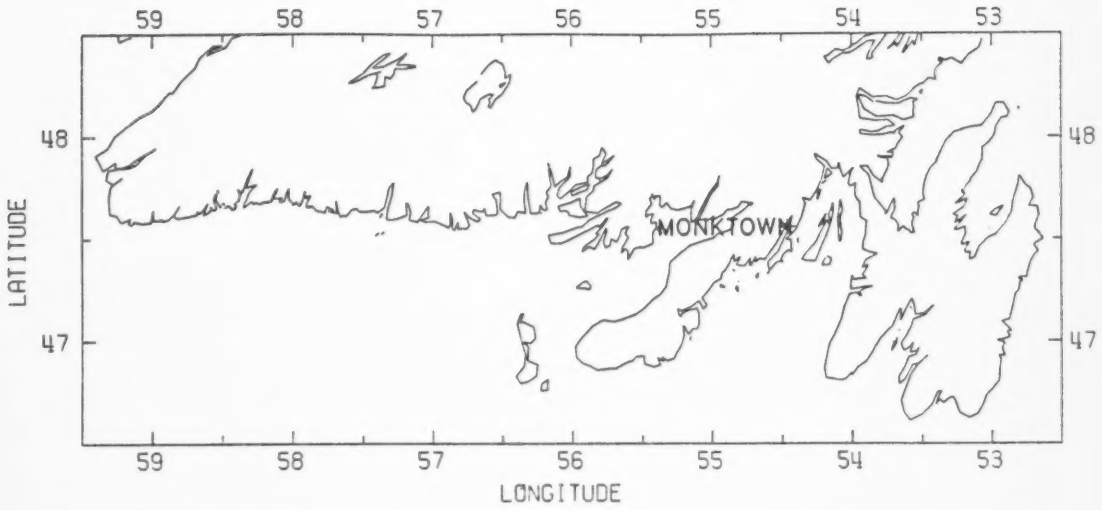
Start: 27-JUN-2001 End: 19-AUG-2001 Inst. S/N: 7934

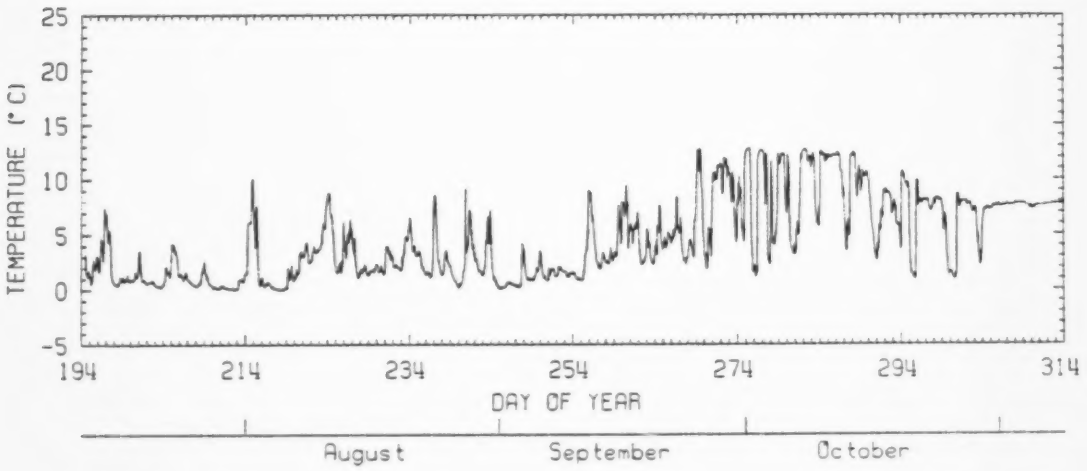
THERMOGRAPH DATA SUMMARY

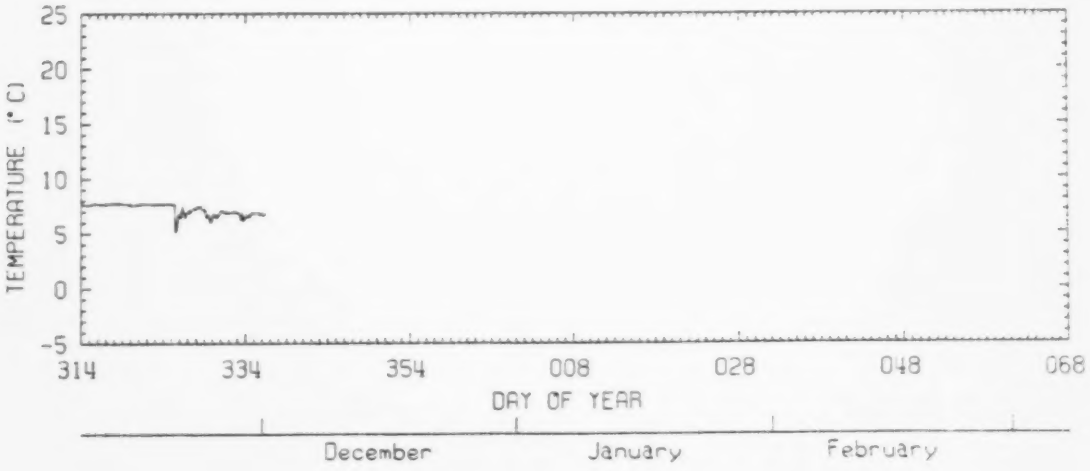
STATION NAME:	MONKTOWN
STATION NUMBER:	253
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	002185
LATITUDE:	47.56° N
LONGITUDE:	54.46° W
INSTRUMENT DEPTH:	40 m
WATER DEPTH:	46 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	12-JUL-2000 11:00 GMT
RECOVERY DATE/TIME:	01-DEC-2000 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2000	0.00	211	7.40	196	1.27	1.32	25.6	0.0	469
AUG-2000	0.00	217	10.00	214	2.72	2.02	84.4	6.6	744
SEP-2000	0.10	245	12.70	269	4.10	3.18	123.1	36.9	720
OCT-2000	0.90	295	12.80	275	7.94	3.27	246.2	124.8	744
NOV-2000	5.10	325	7.80	307	7.37	0.48	221.0	101.0	720
DEC-2000	6.70	336	6.80	336	6.75	0.05	5.8	2.8	12
T.PERIOD	0.00	211	12.80	275	4.95	3.46	707.2	272.1	3409







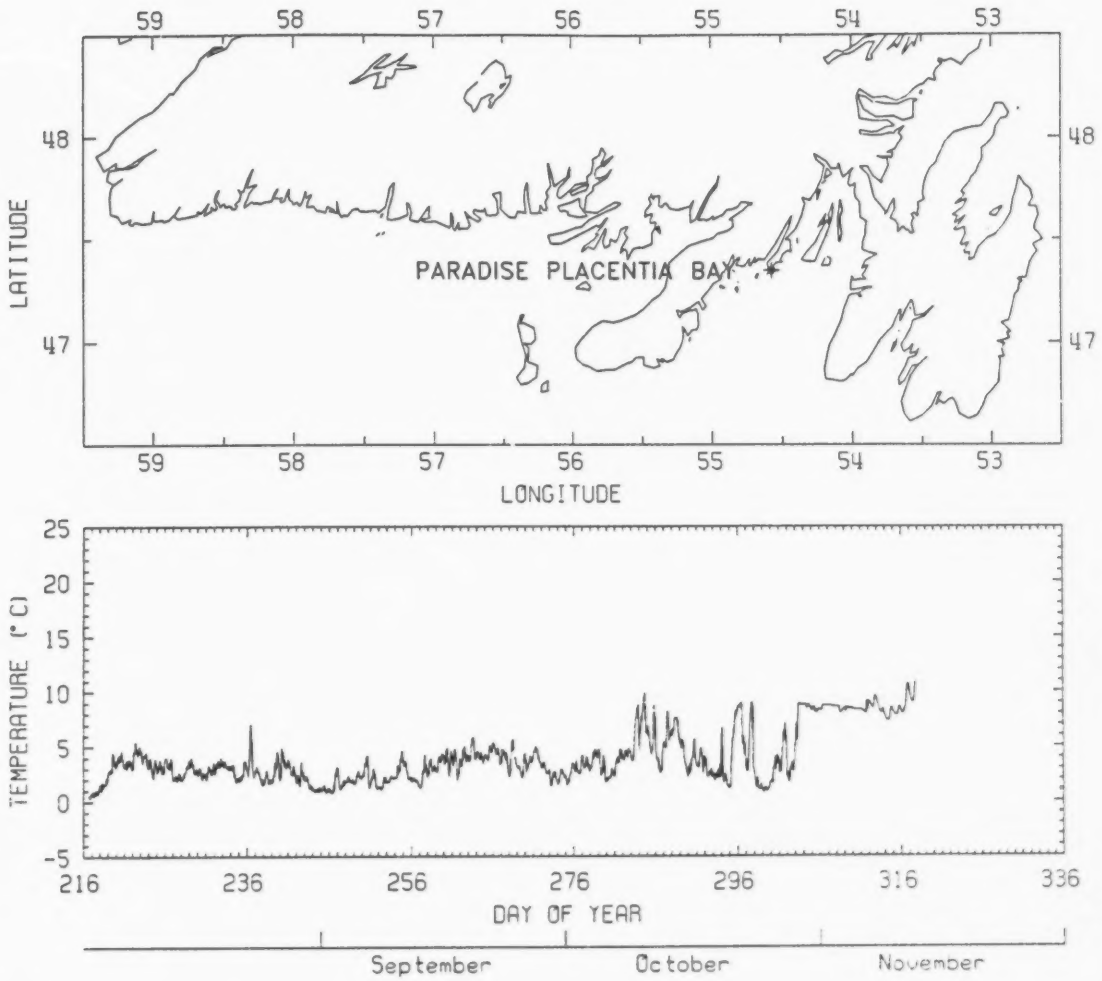
Start:12-JUL-2000 End: 1-DEC-2000 Inst. S/N:2185

THERMOGRAPH DATA SUMMARY

STATION NAME:	PARADISE PLACENTIA BAY
STATION NUMBER:	270
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007938
LATITUDE:	47.35° N
LONGITUDE:	54.57° W
INSTRUMENT DEPTH:	46 m
WATER DEPTH:	46 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	03-AUG-2000 14:00 GMT
RECOVERY DATE/TIME:	12-NOV-2000 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
AUG-2000	0.25	216	7.05	236	2.75	1.01	78.4	0.5	682
SEP-2000	0.75	246	5.85	263	2.93	1.16	87.9	1.7	720
OCT-2000	0.80	299	9.85	284	4.42	2.30	137.1	32.0	744
NOV-2000	7.35	314	10.85	317	8.52	0.59	102.5	54.5	282
T.PERIOD	0.25	216	10.85	317	3.99	2.36	405.9	88.6	2428



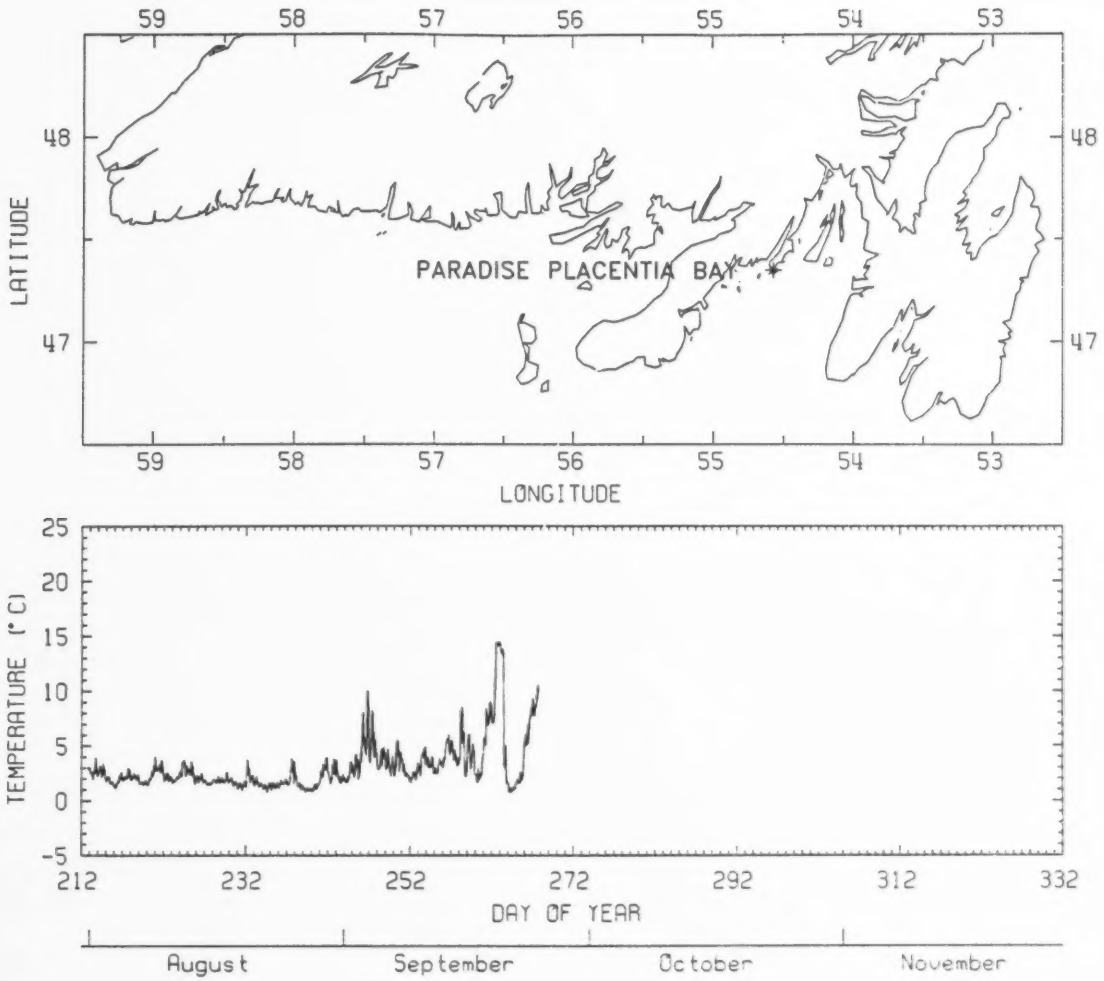
Start: 3-AUG-2000 End: 12-NOV-2000 Inst. S/N: 7938

THERMOGRAPH DATA SUMMARY

STATION NAME:	PARADISE PLACENTIA BAY
STATION NUMBER:	270
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	004355
LATITUDE:	47.35° N
LONGITUDE:	54.57° W
INSTRUMENT DEPTH:	42 m
WATER DEPTH:	46 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	31-JUL-2001 20:00 GMT
RECOVERY DATE/TIME:	24-SEP-2001 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2001	2.80	212	3.10	212	2.95	0.11	3.0	0.0	4
AUG-2001	0.70	234	4.00	221	1.97	0.63	61.0	0.0	744
SEP-2001	0.70	264	14.40	262	4.45	2.85	107.9	27.3	570
T.PERIOD	0.70	234	14.40	262	3.04	2.29	171.9	27.3	1318



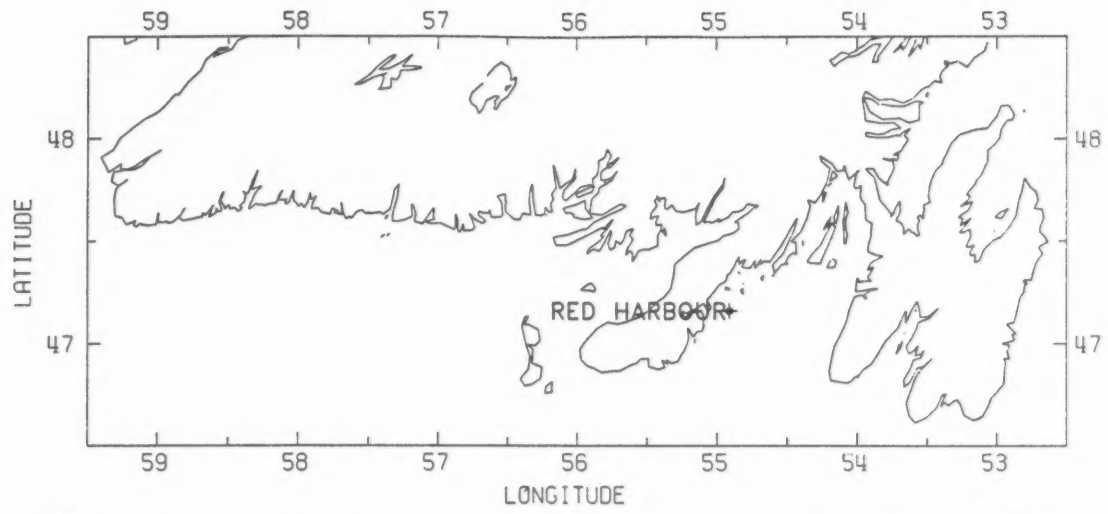
Start: 31-JUL-2001 End: 24-SEP-2001 Inst. S/N:4355

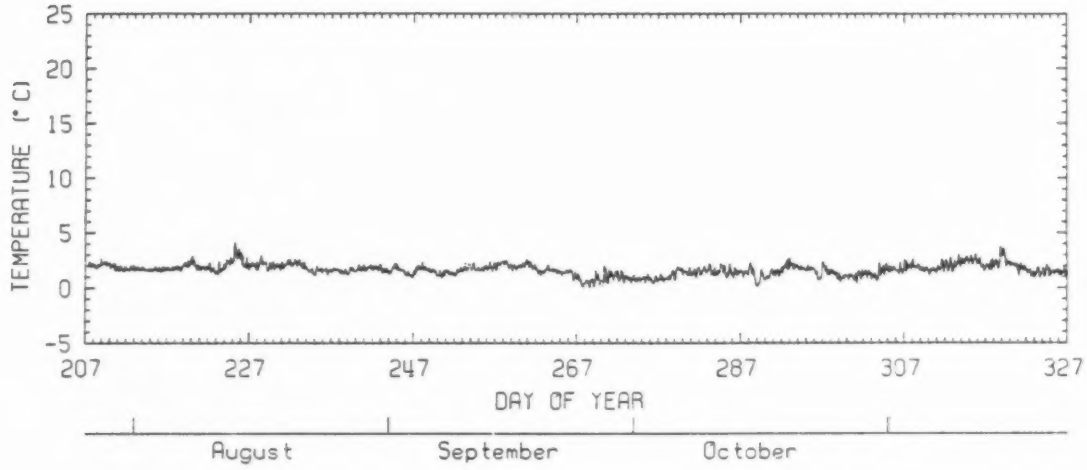
THERMOGRAPH DATA SUMMARY

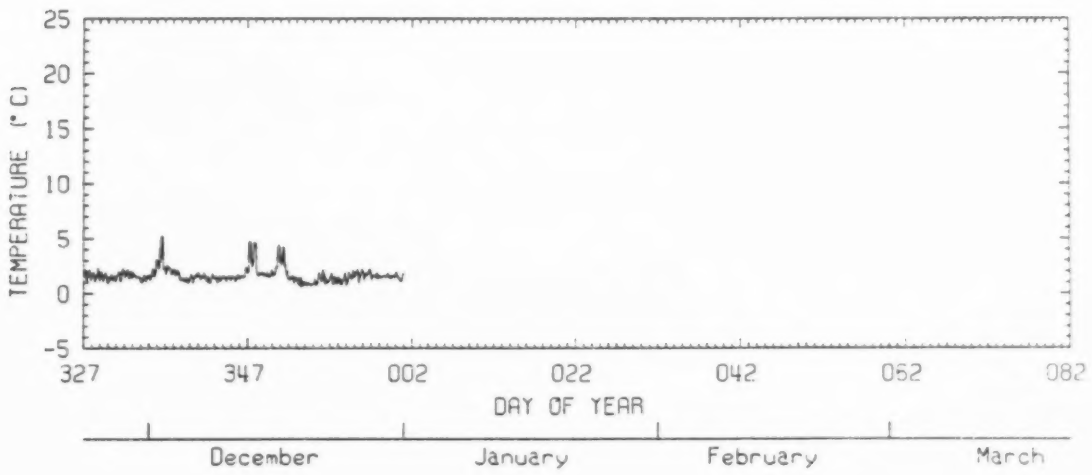
STATION NAME:	RED HARBOUR
STATION NUMBER:	203
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	003808
LATITUDE:	47.16° N
LONGITUDE:	54.91° W
INSTRUMENT DEPTH:	66 m
WATER DEPTH:	68 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	26-JUL-1999 10:00 GMT
RECOVERY DATE/TIME:	31-DEC-1999 24:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-1999	1.50	211	2.70	208	1.94	0.24	11.7	0.0	134
AUG-1999	1.10	223	4.10	225	1.87	0.39	57.9	0.0	744
SEP-1999	0.00	268	2.60	260	1.46	0.51	43.9	0.0	720
OCT-1999	0.10	289	2.70	292	1.32	0.45	40.8	0.0	744
NOV-1999	0.90	323	3.80	318	1.82	0.47	54.6	0.0	720
DEC-1999	0.60	353	5.20	336	1.70	0.75	52.6	0.0	744
T.PERIOD	0.00	268	5.20	336	1.64	0.56	261.5	0.0	3806







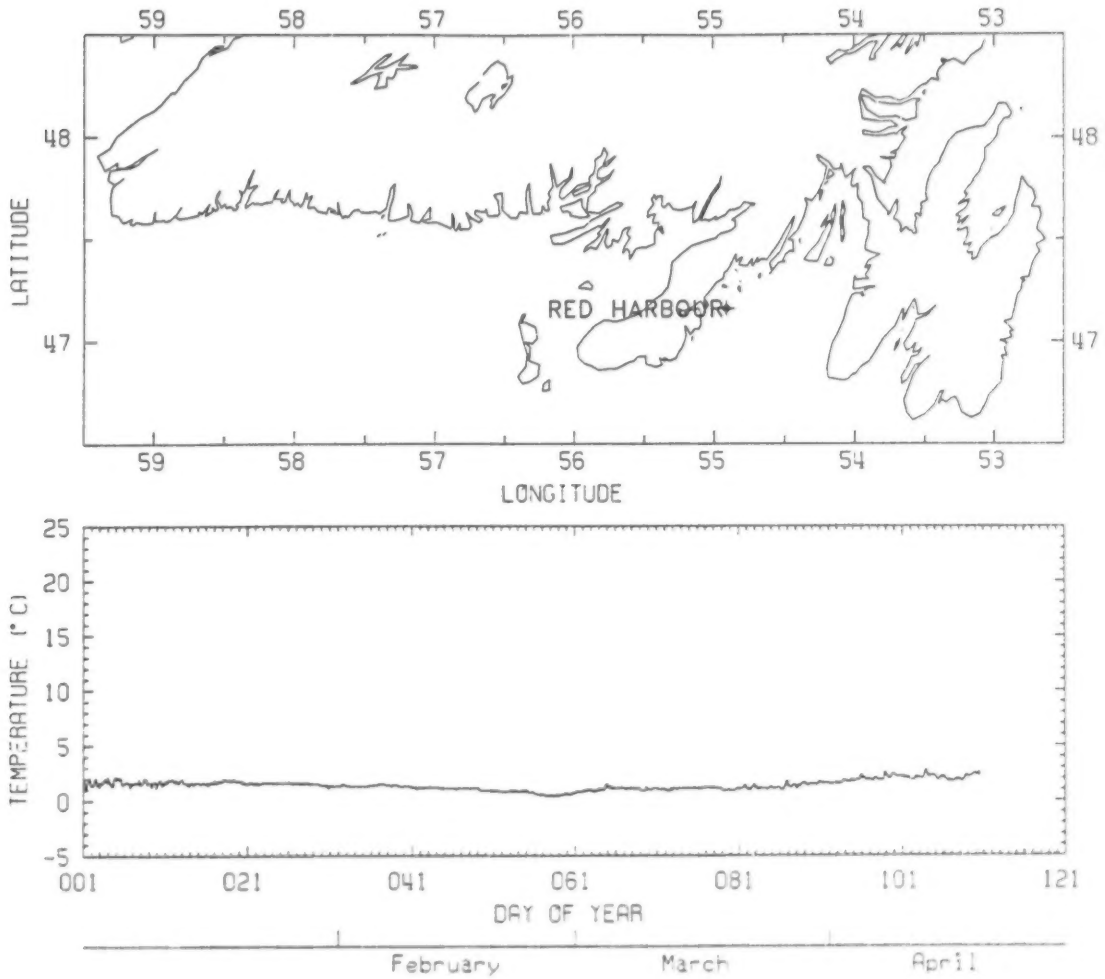
Start:26-JUL-1999 End:31-DEC-1999 Inst. S/N:3808

THERMOGRAPH DATA SUMMARY

STATION NAME:	RED HARBOUR
STATION NUMBER:	203
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	003808
LATITUDE:	47.16° N
LONGITUDE:	54.91° W
INSTRUMENT DEPTH:	66 m
WATER DEPTH:	68 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	01-JAN-2000 00:00 GMT
RECOVERY DATE/TIME:	19-APR-2000 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JAN-2000	1.00	1	2.20	4	1.62	0.18	50.1	0.0	744
FEB-2000	0.40	57	1.50	32	1.02	0.31	29.7	0.0	696
MAR-2000	0.70	61	1.80	86	1.12	0.20	34.8	0.0	744
APR-2000	1.50	92	2.80	103	2.02	0.25	38.4	0.0	448
T.PERIOD	0.40	57	2.80	103	1.39	0.44	153.1	0.0	2632



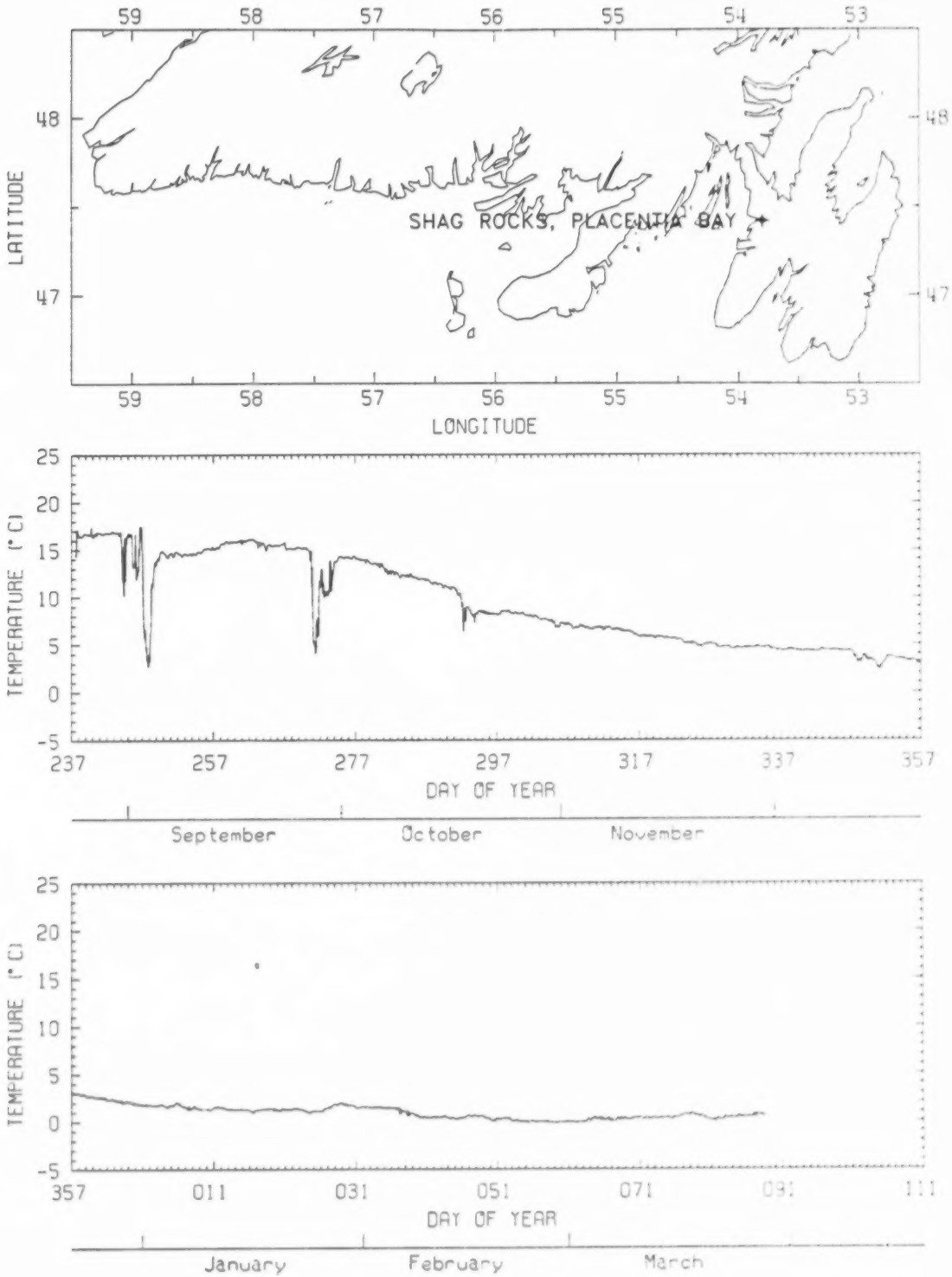
Start: 1-JAN-2000 End: 19-APR-2000 Inst. S/N:3808

THERMOGRAPH DATA SUMMARY

STATION NAME:	SHAG ROCKS, PLACENTIA BAY
STATION NUMBER:	111
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	003267
LATITUDE:	47.42° N
LONGITUDE:	53.80° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	25-AUG-1999 14:00 GMT
RECOVERY DATE/TIME:	28-MAR-2000 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
AUG-1999	14.30	237	17.40	239	16.66	0.38	116.2	88.2	154
SEP-1999	2.70	247	17.50	246	14.14	2.72	424.2	304.2	720
OCT-1999	6.35	292	14.30	274	10.73	2.37	332.7	208.7	744
NOV-1999	4.55	329	7.40	305	5.76	0.87	172.9	52.9	720
DEC-1999	1.85	365	4.80	335	3.53	0.82	109.4	4.9	744
JAN-2000	0.95	16	2.10	5	1.47	0.25	45.6	0.0	744
FEB-2000	-0.10	55	1.60	32	0.55	0.52	15.9	0.0	696
MAR-2000	-0.10	62	0.95	78	0.38	0.21	10.9	0.0	660
T.PERIOD	-0.10	55	17.50	246	5.64	5.44	1227.7	658.8	5182



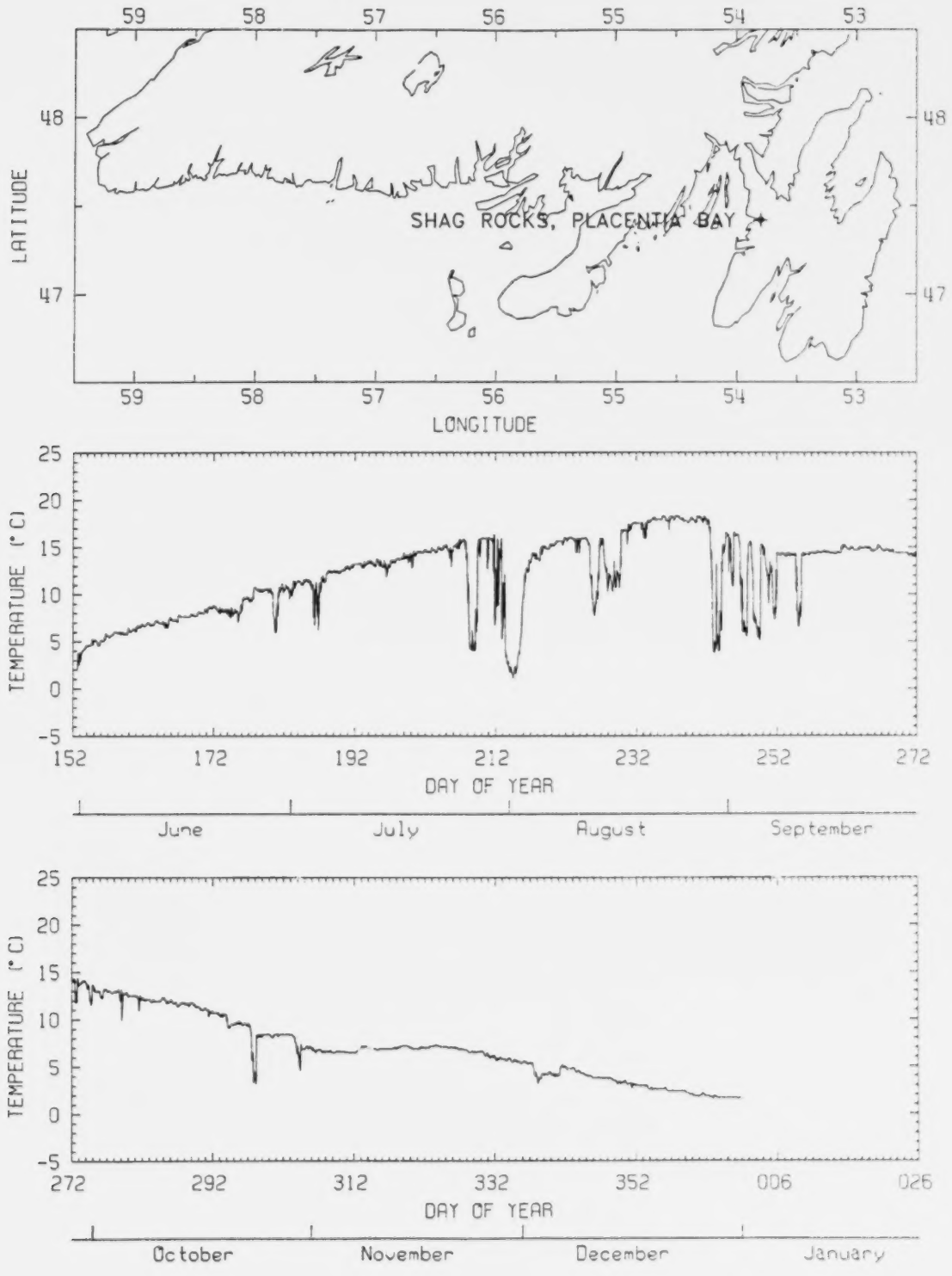
Start:25-AUG-1999 End:28-MAR-2000 Inst. S/N:3267

THERMOGRAPH DATA SUMMARY

STATION NAME:	SHAG ROCKS, PLACENTIA BAY
STATION NUMBER:	111
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	004348
LATITUDE:	47.42° N
LONGITUDE:	53.80° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	31-MAY-2000 14:00 GMT
RECOVERY DATE/TIME:	31-DEC-2000 24:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2000	2.00	152	3.80	152	3.09	0.68	3.1	0.0	10
JUN-2000	2.90	153	11.10	181	7.53	1.79	225.8	105.8	720
JUL-2000	2.20	213	16.30	211	12.71	2.73	394.1	270.1	744
AUG-2000	1.10	214	18.30	235	14.46	4.24	448.3	326.5	744
SEP-2000	5.00	249	16.60	246	13.56	2.37	406.8	286.8	720
OCT-2000	3.20	298	13.60	275	10.47	2.08	324.6	200.6	744
NOV-2000	5.40	335	7.30	319	6.66	0.46	199.9	79.9	720
DEC-2000	1.60	362	5.60	336	3.20	1.11	99.2	5.1	744
T.PERIOD	1.10	214	18.30	235	9.79	4.54	2101.8	1274.9	5146



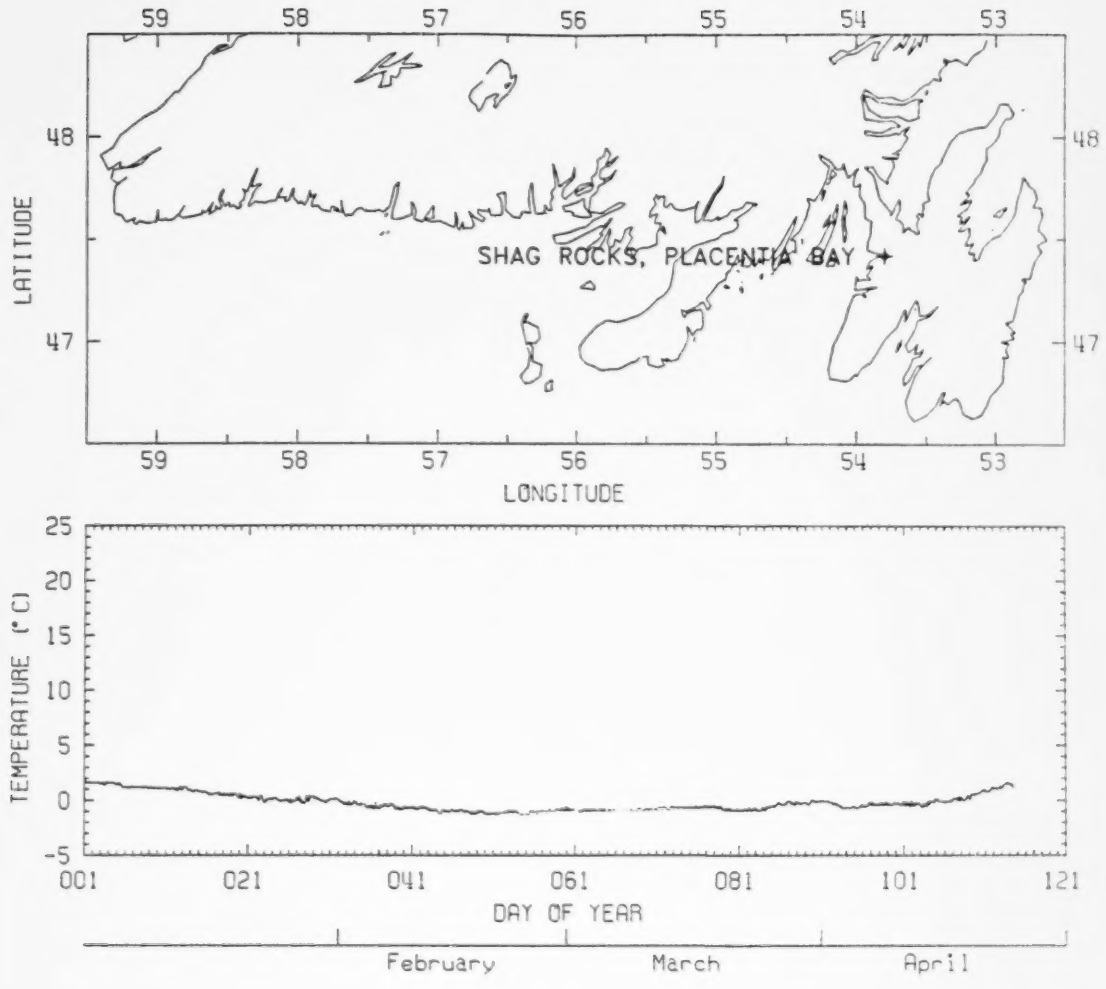
Start:31-MAY-2000 End:31-DEC-2000 Inst. S/N:4348

THERMOGRAPH DATA SUMMARY

STATION NAME:	SHAG ROCKS, PLACENTIA BAY
STATION NUMBER:	111
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	004348
LATITUDE:	47.42° N
LONGITUDE:	53.80° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	01-JAN-2001 00:00 GMT
RECOVERY DATE/TIME:	24-APR-2001 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JAN-2001	-0.30	27	1.70	1	0.69	0.57	21.6	0.0	744
FEB-2001	-1.30	50	0.00	32	-0.85	0.30	0.0	0.0	672
MAR-2001	-1.10	61	0.10	89	-0.69	0.25	0.0	0.0	744
APR-2001	-0.70	93	1.60	113	0.00	0.60	6.3	0.0	564
T.PERIOD	-1.30	50	1.70	1	-0.21	0.78	28.0	0.0	2724



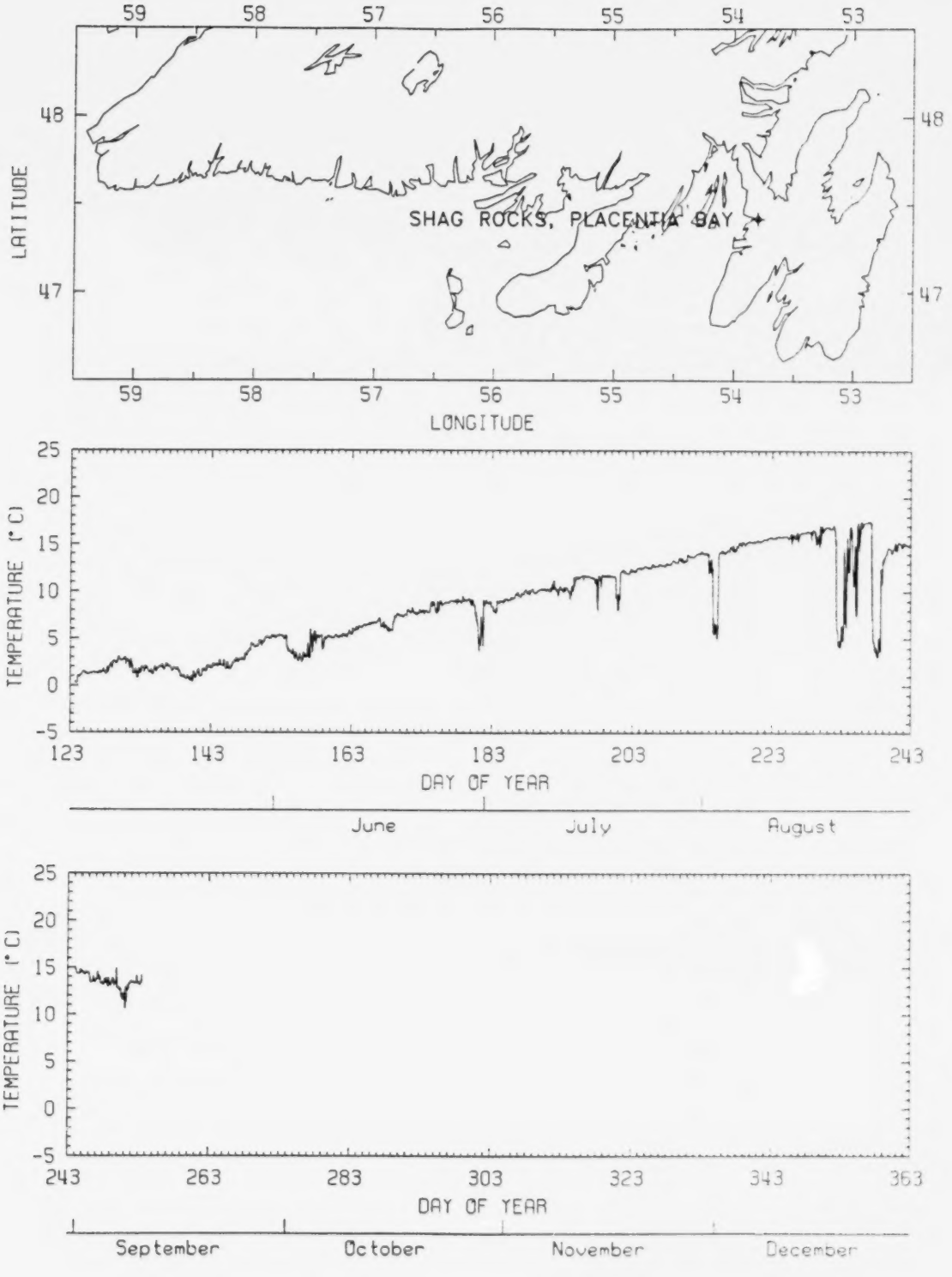
Start: 1-JAN-2001 End: 24-APR-2001 Inst. S/N:4348

THERMOGRAPH DATA SUMMARY

STATION NAME:	SHAG ROCKS, PLACENTIA BAY
STATION NUMBER:	111
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	003264
LATITUDE:	47.42° N
LONGITUDE:	53.80° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	03-MAY-2001 15:00 GMT
RECOVERY DATE/TIME:	10-SEP-2001 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2001	0.30	123	5.40	151	2.17	1.13	61.7	2.2	681
JUN-2001	2.50	155	9.50	178	6.47	1.79	194.2	76.5	720
JUL-2001	7.70	183	14.30	212	11.21	1.59	347.6	223.6	744
AUG-2001	3.10	238	17.50	235	14.16	3.37	439.1	315.1	744
SEP-2001	10.60	251	15.00	244	13.53	0.74	135.2	95.2	230
T.PERIOD	0.30	123	17.50	235	9.02	5.01	1177.9	712.6	3119



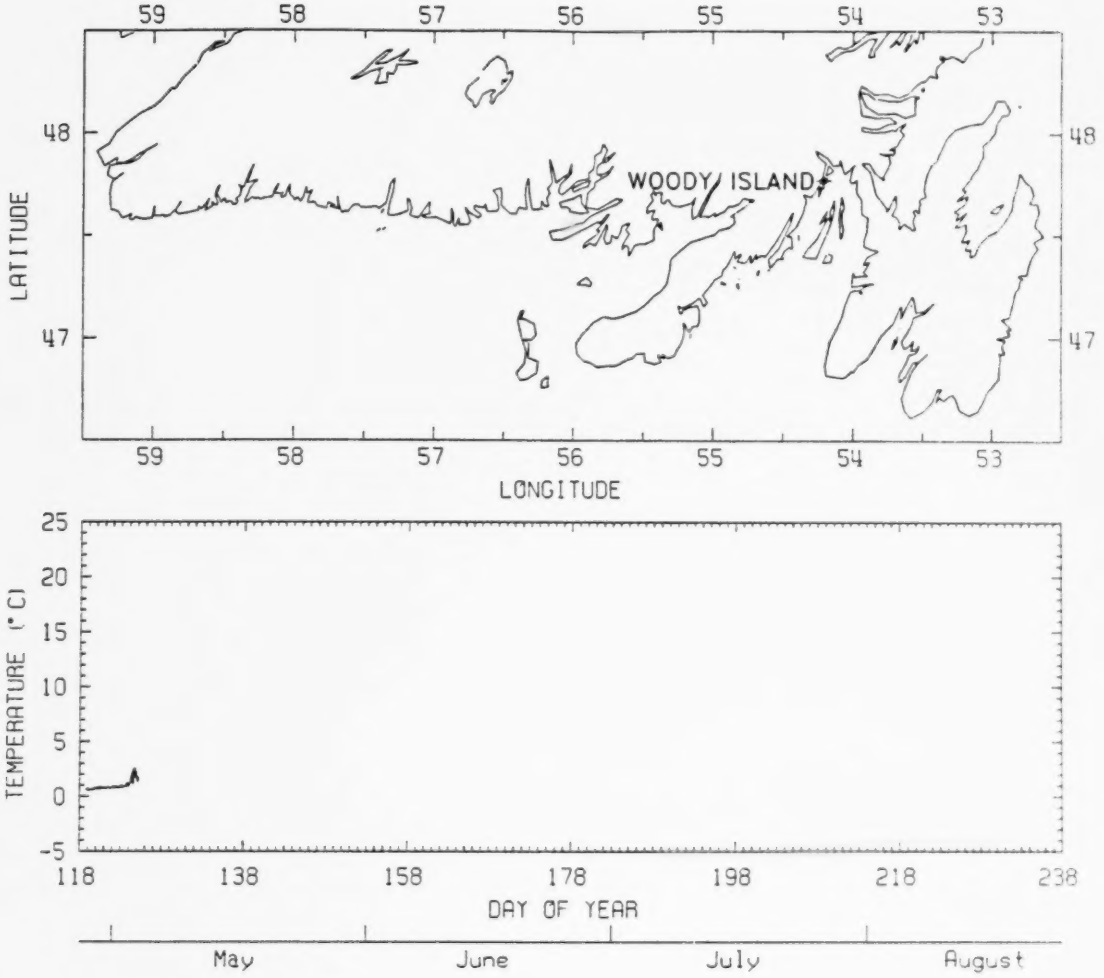
Start: 3-MAY-2001 End: 10-SEP-2001 Inst. S/N: 3264

THERMOGRAPH DATA SUMMARY

STATION NAME:	WOODY ISLAND
STATION NUMBER:	263
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	003827
LATITUDE:	47.77° N
LONGITUDE:	54.21° W
INSTRUMENT DEPTH:	40 m
WATER DEPTH:	40 m
SAMPLE INTERVAL:	30 min.
DEPLOYMENT DATE/TIME:	27-APR-2000 18:00 GMT
RECOVERY DATE/TIME:	04-MAY-2000 05:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
APR-2000	0.60	118	0.90	120	0.72	0.09	2.8	0.0	156
MAY-2000	0.80	122	2.60	124	1.18	0.47	5.0	0.0	155
T.PERIOD	0.60	118	2.60	124	0.95	0.41	7.8	0.0	311



Start: 27-APR-2000 End: 4-MAY-2000 Inst. S/N:3827

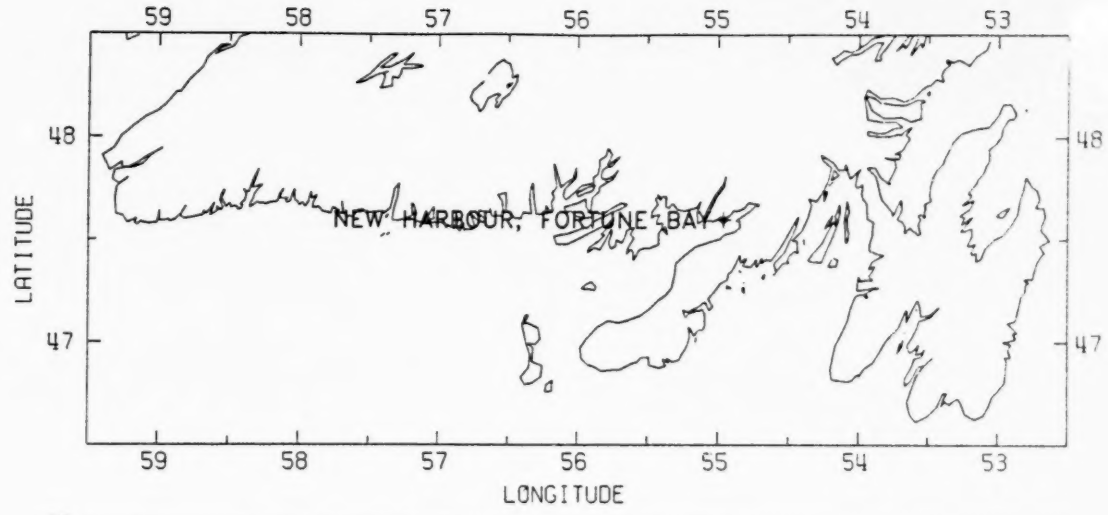
Appendix 12. Time Series Plots and Monthly Statistics from Unit Area 3PSb.

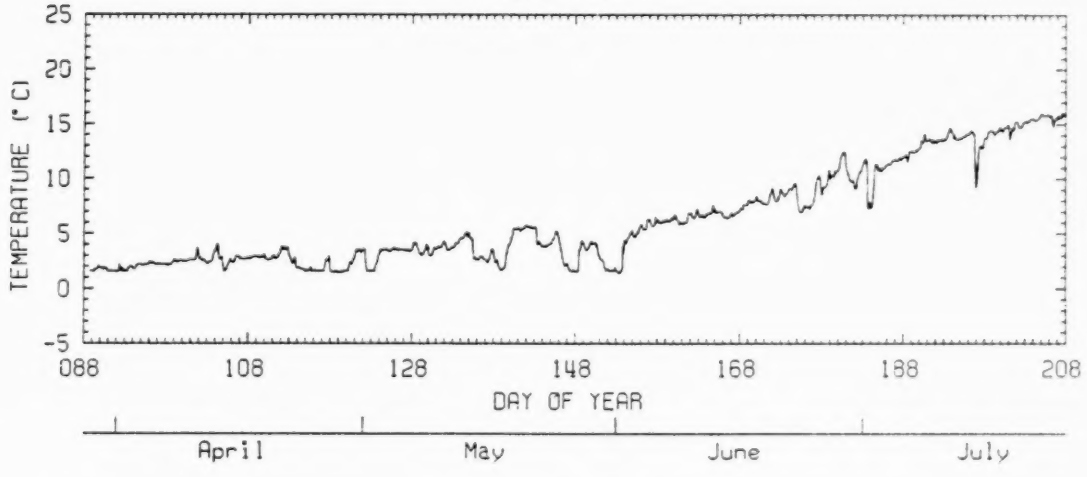
THERMOGRAPH DATA SUMMARY

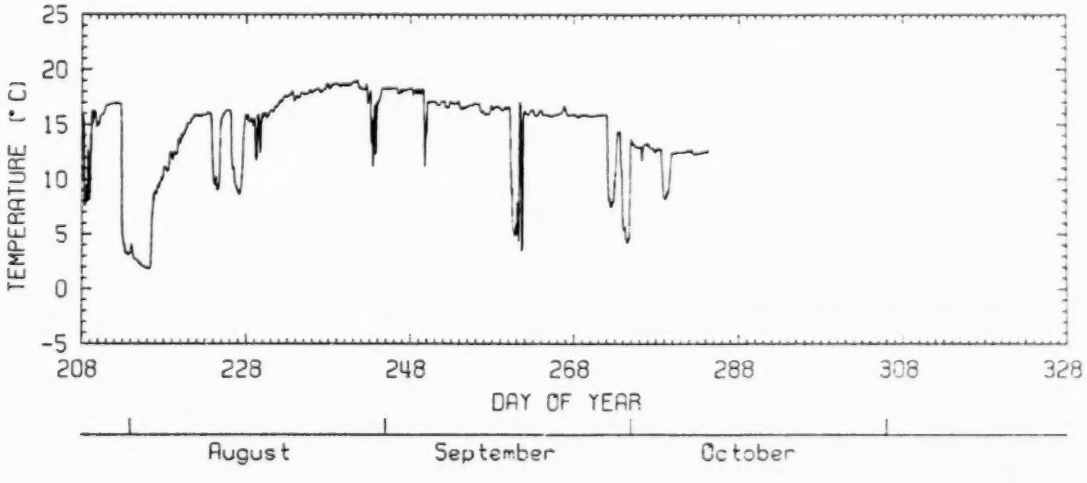
STATION NAME:	NEW HARBOUR, FORTUNE BAY
STATION NUMBER:	255
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	004349
LATITUDE:	47.60° N
LONGITUDE:	54.96° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	18 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	28-MAR-2000 17:00 GMT
RECOVERY DATE/TIME:	10-OCT-2000 09:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAR-2000	2.00	88	2.00	88	2.00	0.00	8.0	0.0	79
APR-2000	1.00	92	4.00	101	2.46	0.63	73.9	0.0	720
MAY-2000	1.00	148	6.00	141	3.45	1.05	106.8	5.6	744
JUN-2000	1.00	153	12.00	180	7.44	1.99	223.2	105.3	720
JUL-2000	3.00	213	17.00	210	13.40	2.81	415.4	292.0	744
AUG-2000	2.00	214	19.00	237	14.54	4.63	450.6	329.5	744
SEP-2000	3.00	261	18.00	245	15.42	3.31	462.6	342.6	720
OCT-2000	8.00	278	13.00	275	12.39	1.27	124.3	84.3	226
T.PERIOD	1.00	92	19.00	237	9.48	5.87	1864.8	1159.3	4697







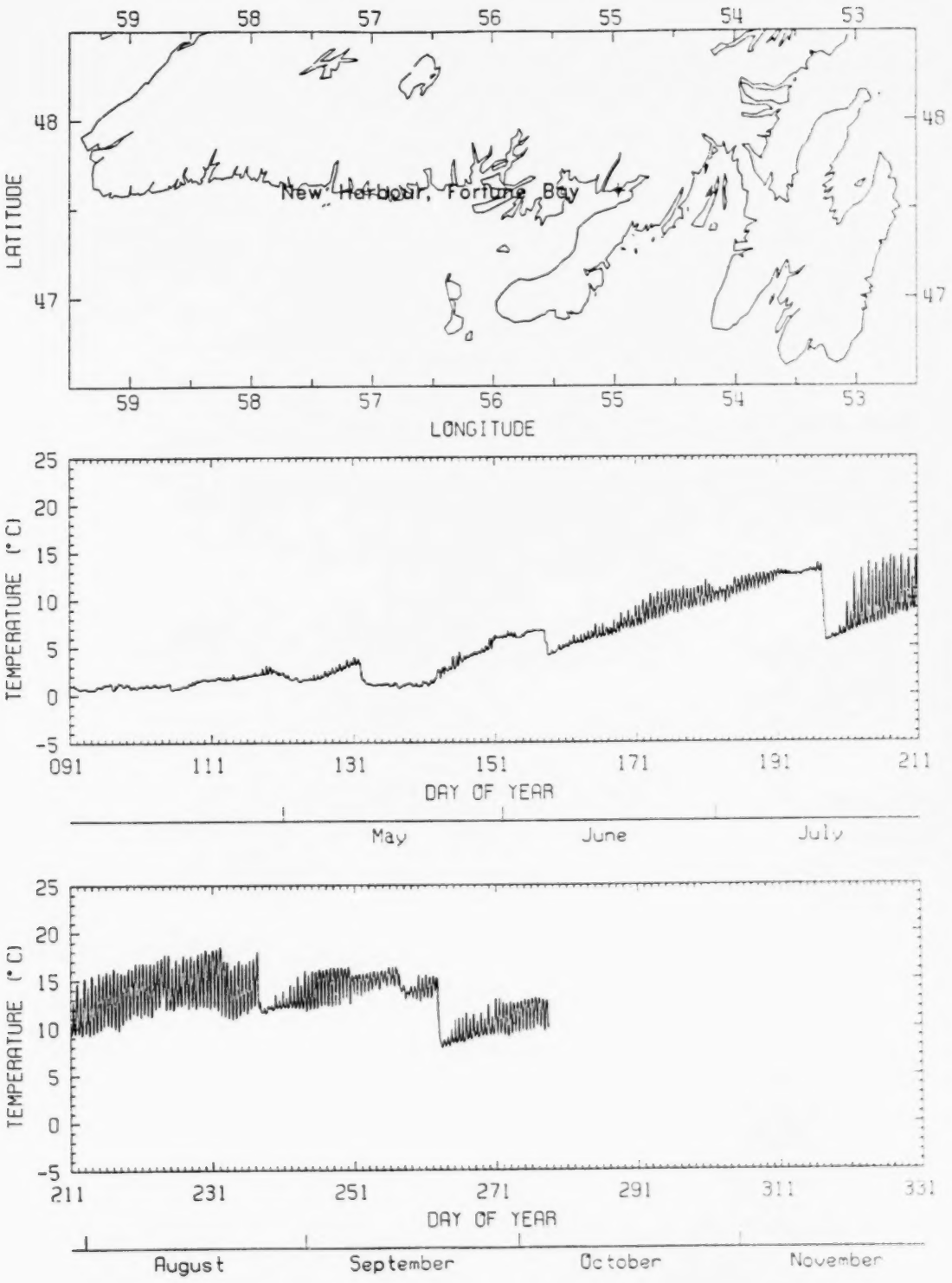
Start:28-MAR-2000 End:10-OCT-2000 Inst. S/N:4349

THERMOGRAPH DATA SUMMARY

STATION NAME:	New Harbour, Fortune Bay
STATION NUMBER:	255
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	002186
LATITUDE:	47.60° N
LONGITUDE:	54.96° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	10 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	01-APR-2001 12:00 GMT
RECOVERY DATE/TIME:	05-OCT-2001 09:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
APR-2001	0.50	93	3.10	118	1.33	0.59	39.6	0.0	708
MAY-2001	0.70	137	6.20	151	2.40	1.41	74.4	4.6	744
JUN-2001	4.10	158	12.00	180	7.40	1.92	222.0	102.0	720
JUL-2001	5.50	198	15.20	212	10.52	2.41	326.1	202.1	744
AUG-2001	9.20	213	18.50	232	13.74	2.17	425.8	301.8	744
SEP-2001	7.80	263	16.40	250	12.78	2.59	383.4	263.4	720
OCT-2001	9.40	274	13.10	276	11.56	1.23	57.8	37.8	106
T.PERIOD	0.50	93	18.50	232	8.14	5.16	1529.1	911.7	4486



Start: 1-APR-2001 End: 5-OCT-2001 Inst. S/N:2186

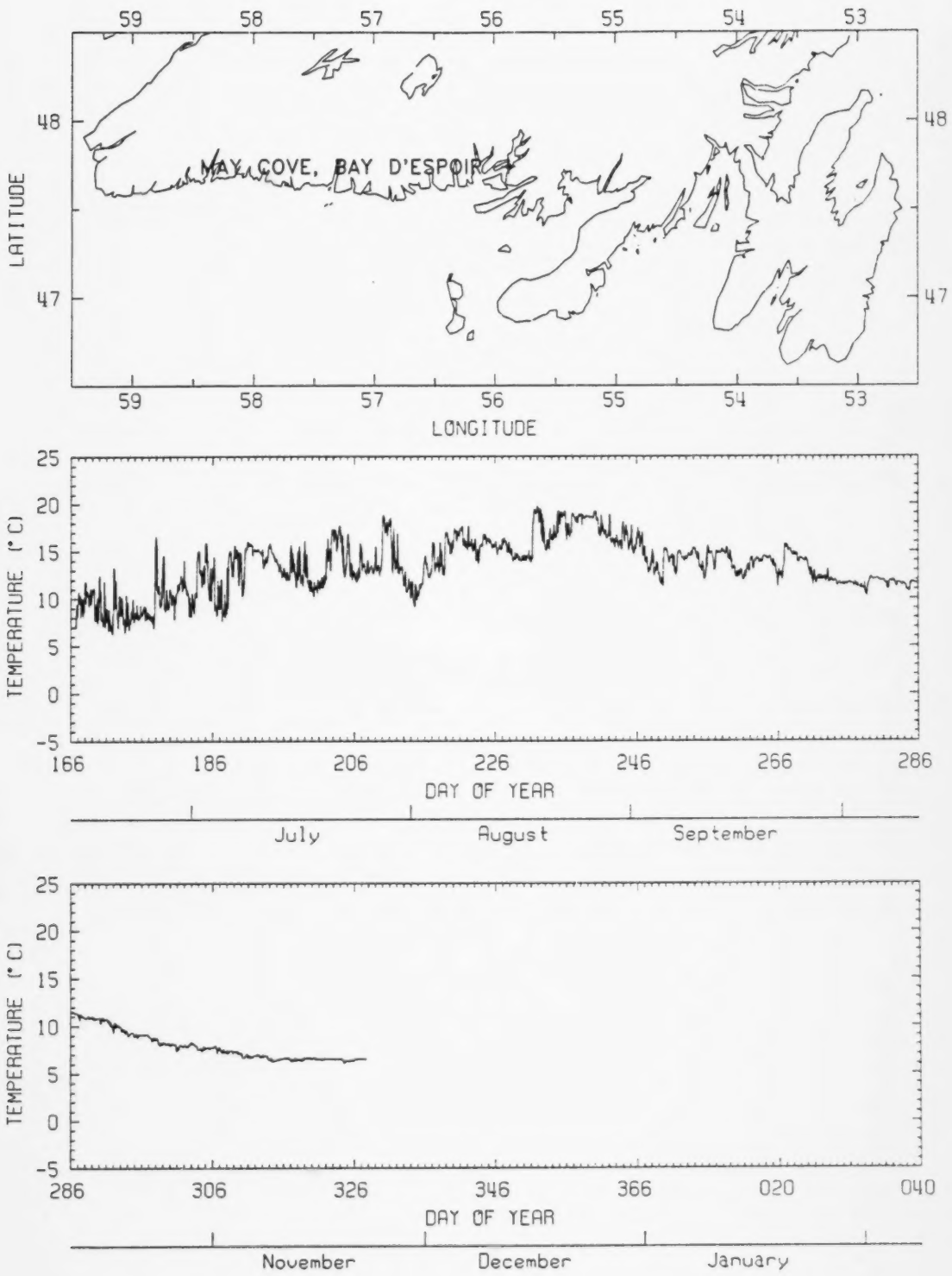
Appendix 13. Time Series Plots and Monthly Statistics from Unit Area 3PSa.

THERMOGRAPH DATA SUMMARY

STATION NAME:	MAY COVE, BAY D'ESPOIR
STATION NUMBER:	266
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007929
LATITUDE:	47.74° N
LONGITUDE:	55.88° W
INSTRUMENT DEPTH:	8 m
WATER DEPTH:	8 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	14-JUN-2000 16:00 GMT
RECOVERY DATE/TIME:	22-NOV-2000 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2000	6.30	171	16.60	178	9.38	1.72	158.6	90.6	392
JUL-2000	7.60	187	18.80	210	13.33	2.12	413.3	289.3	744
AUG-2000	9.10	214	19.75	232	15.93	2.11	493.7	369.7	744
SEP-2000	11.25	249	17.75	245	13.78	1.24	413.5	293.5	720
OCT-2000	7.30	304	12.30	279	10.04	1.54	311.3	187.4	744
NOV-2000	6.10	324	7.95	306	6.69	0.37	147.2	59.2	522
T.PERIOD	6.10	324	19.75	232	11.99	3.45	1937.7	1289.7	3866



Start: 14-JUN-2000 End: 22-NOV-2000 Inst. S/N: 7929

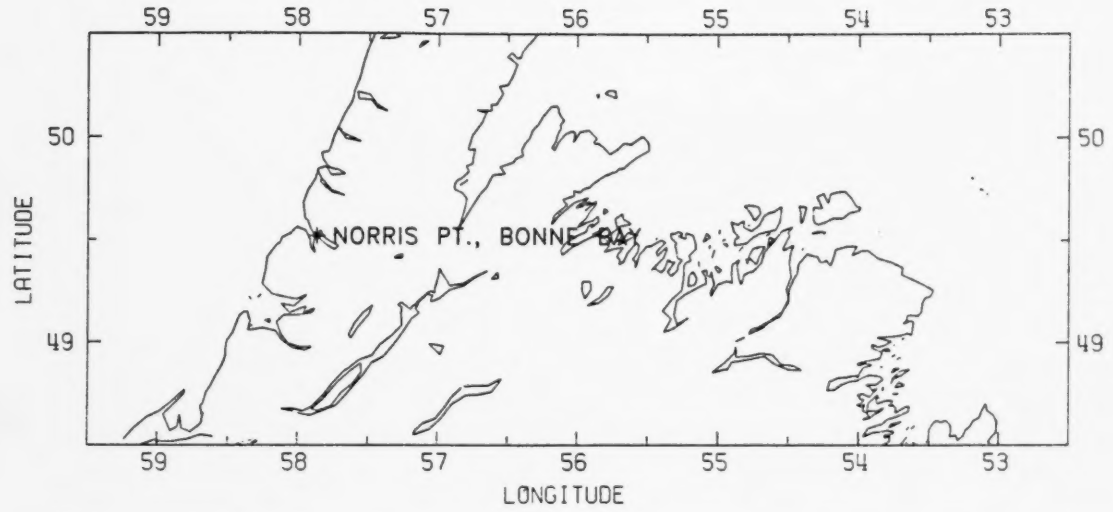
Appendix 14. Time Series Plots and Monthly Statistics from Unit Area 4Rc.

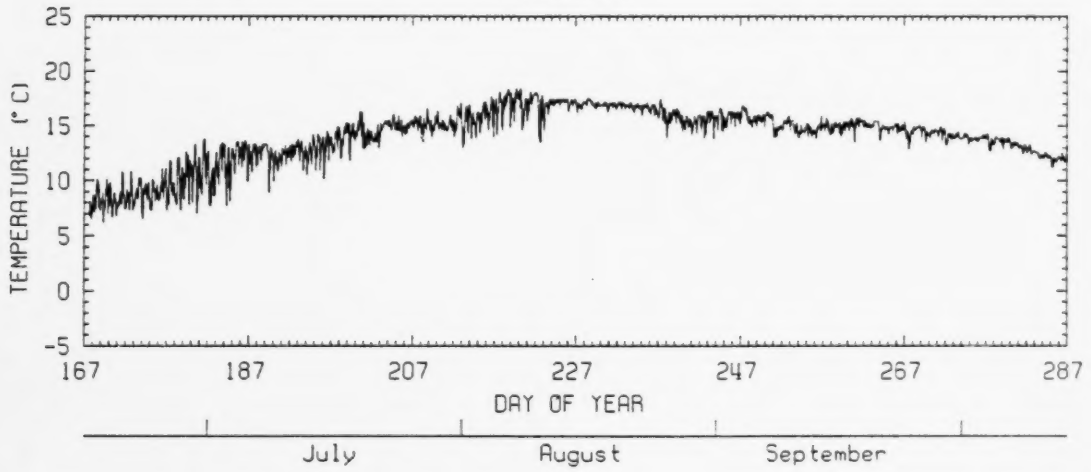
THERMOGRAPH DATA SUMMARY

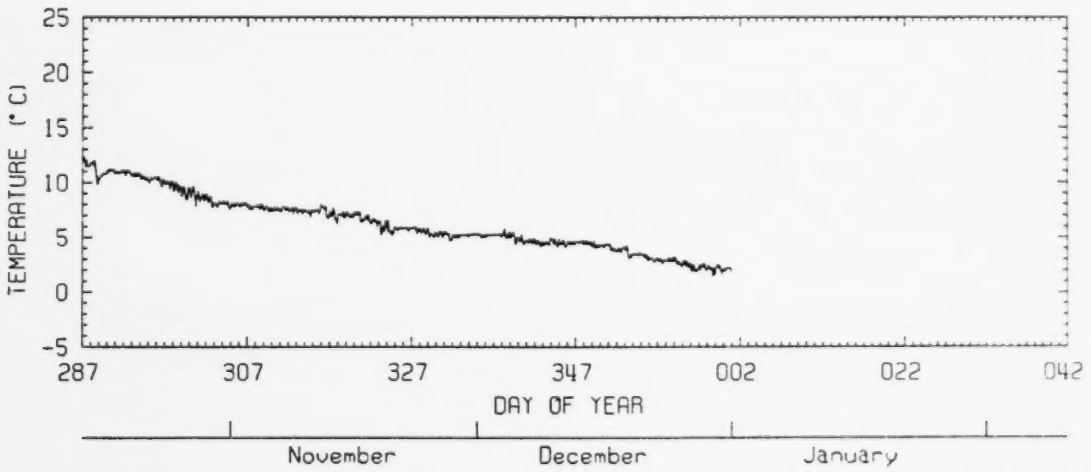
STATION NAME:	NORRIS PT., BONNE BAY
STATION NUMBER:	192
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	006436
LATITUDE:	49.52° N
LONGITUDE:	57.87° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	10 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	16-JUN-1999 15:00 GMT
RECOVERY DATE/TIME:	31-DEC-1999 24:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-1999	6.20	169	13.80	181	9.13	1.44	135.8	75.8	345
JUL-1999	7.70	182	17.10	212	13.53	1.60	419.3	295.3	744
AUG-1999	13.00	213	18.40	219	16.47	0.93	510.7	386.7	744
SEP-1999	12.90	267	16.80	247	14.97	0.66	449.1	329.1	720
OCT-1999	7.50	304	14.30	274	11.26	1.88	349.2	225.2	744
NOV-1999	4.60	331	8.10	305	6.61	1.02	198.2	78.2	720
DEC-1999	1.40	363	5.80	338	3.81	1.06	118.2	11.1	744
T.PERIOD	1.40	363	18.40	219	10.97	4.58	2180.5	1401.4	4761







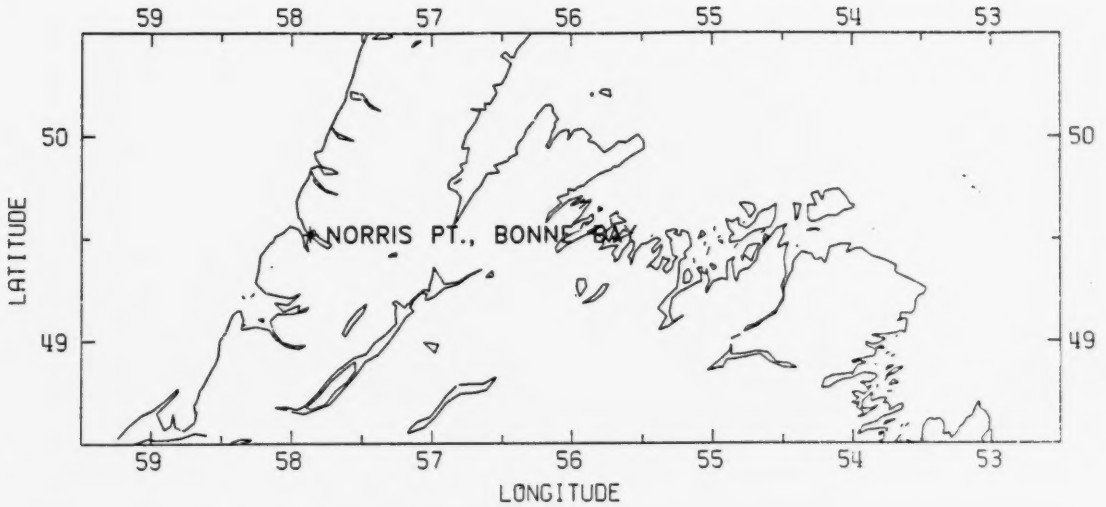
Start:16-JUN-1999 End:31-DEC-1999 Inst. S/N:6436

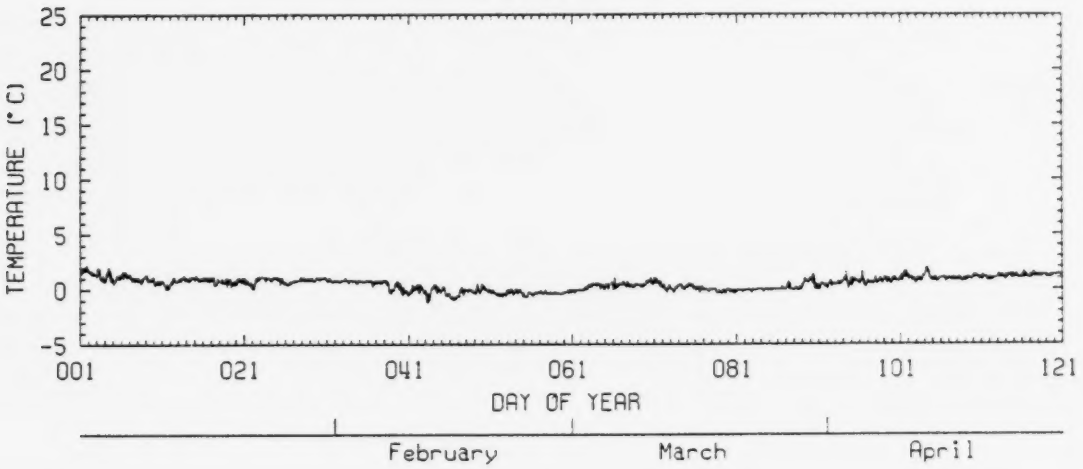
THERMOGRAPH DATA SUMMARY

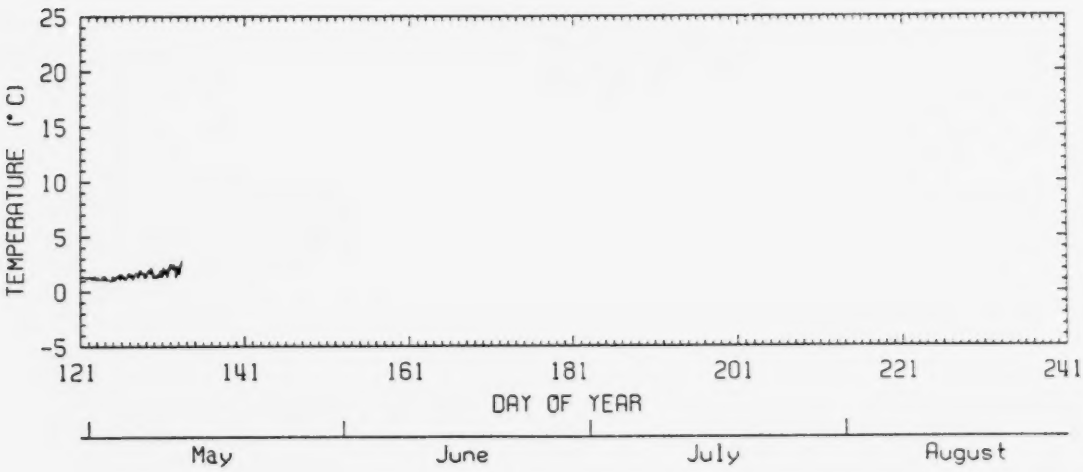
STATION NAME:	NORRIS PT., BONNE BAY
STATION NUMBER:	192
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	006436
LATITUDE:	49.52° N
LONGITUDE:	57.87° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	10 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	01-JAN-2000 00:00 GMT
RECOVERY DATE/TIME:	12-MAY-2000 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JAN-2000	0.00	11	2.20	1	0.92	0.34	28.6	0.0	744
FEB-2000	-1.20	43	1.00	33	-0.03	0.48	4.9	0.0	696
MAR-2000	-0.40	78	1.30	90	0.17	0.30	6.2	0.0	744
APR-2000	0.00	92	1.90	104	0.96	0.30	28.9	0.0	720
MAY-2000	1.00	124	2.80	133	1.51	0.39	18.6	0.0	276
T.PERIOD	-1.20	43	2.80	133	0.60	0.62	87.2	0.0	3180







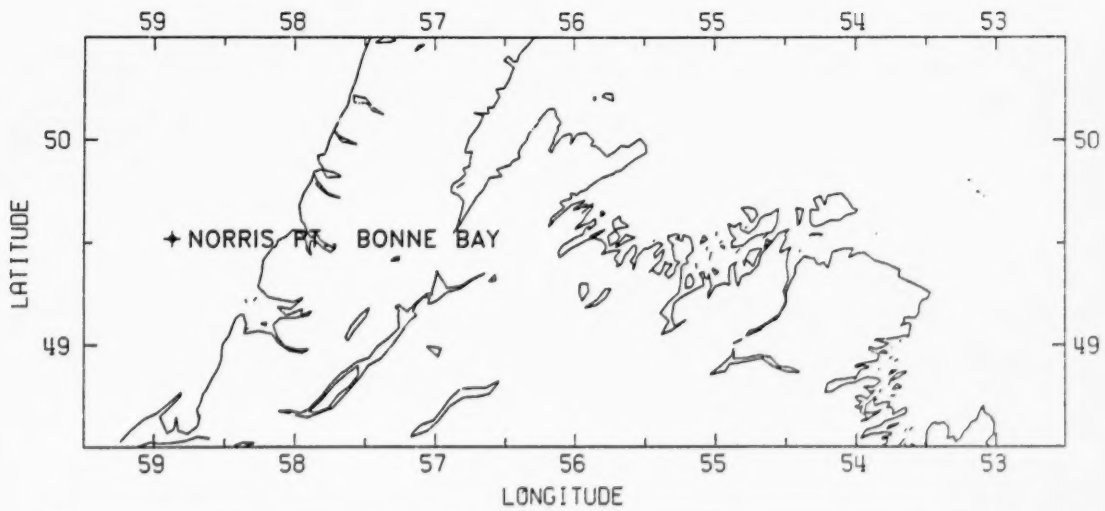
Start: 1-JAN-2000 End:12-MAY-2000 Inst. S/N:6436

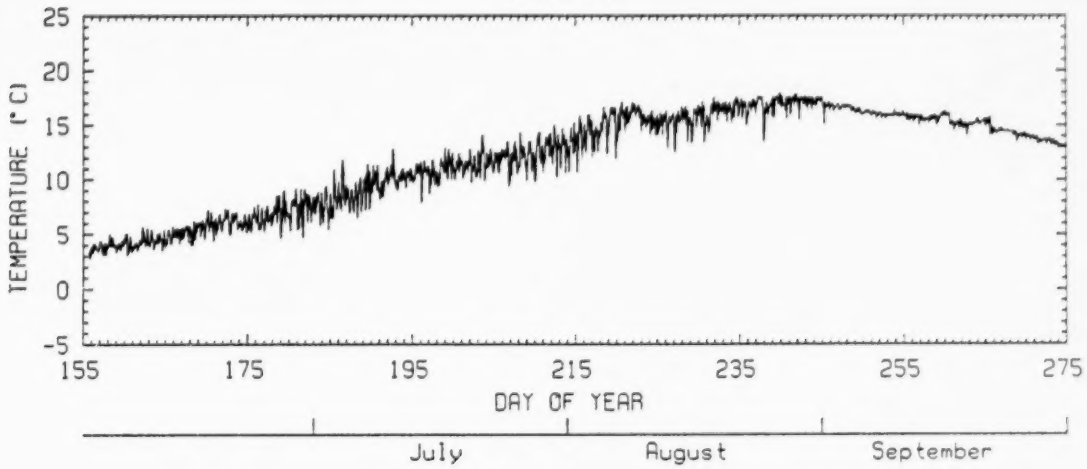
THERMOGRAPH DATA SUMMARY

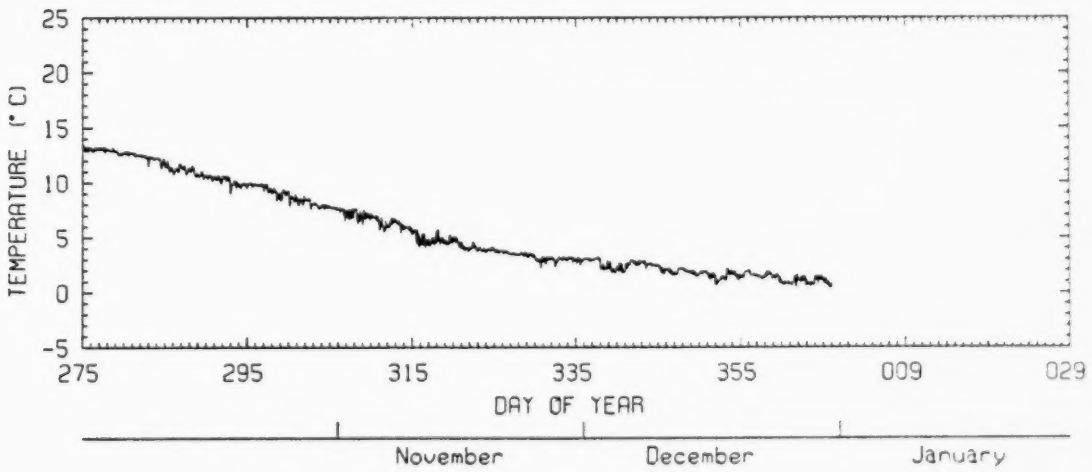
STATION NAME:	NORRIS PT., BONNE BAY
STATION NUMBER:	192
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	004352
LATITUDE:	49.52° N
LONGITUDE:	58.87° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	10 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	03-JUN-2000 16:00 GMT
RECOVERY DATE/TIME:	31-DEC-2000 24:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2000	2.80	155	9.10	180	5.51	1.35	152.7	41.9	656
JUL-2000	5.40	184	15.00	212	10.69	1.80	331.4	207.3	744
AUG-2000	10.70	214	17.90	239	15.90	1.28	493.0	369.0	744
SEP-2000	12.90	274	17.10	245	15.27	1.04	458.0	338.0	720
OCT-2000	7.50	305	13.40	275	10.61	1.74	329.0	205.0	744
NOV-2000	2.20	330	7.70	306	4.68	1.48	140.4	28.9	720
DEC-2000	0.40	365	3.20	337	1.80	0.66	54.0	0.0	720
T.PERIOD	0.40	365	17.90	239	9.30	5.19	1958.4	1190.0	5048







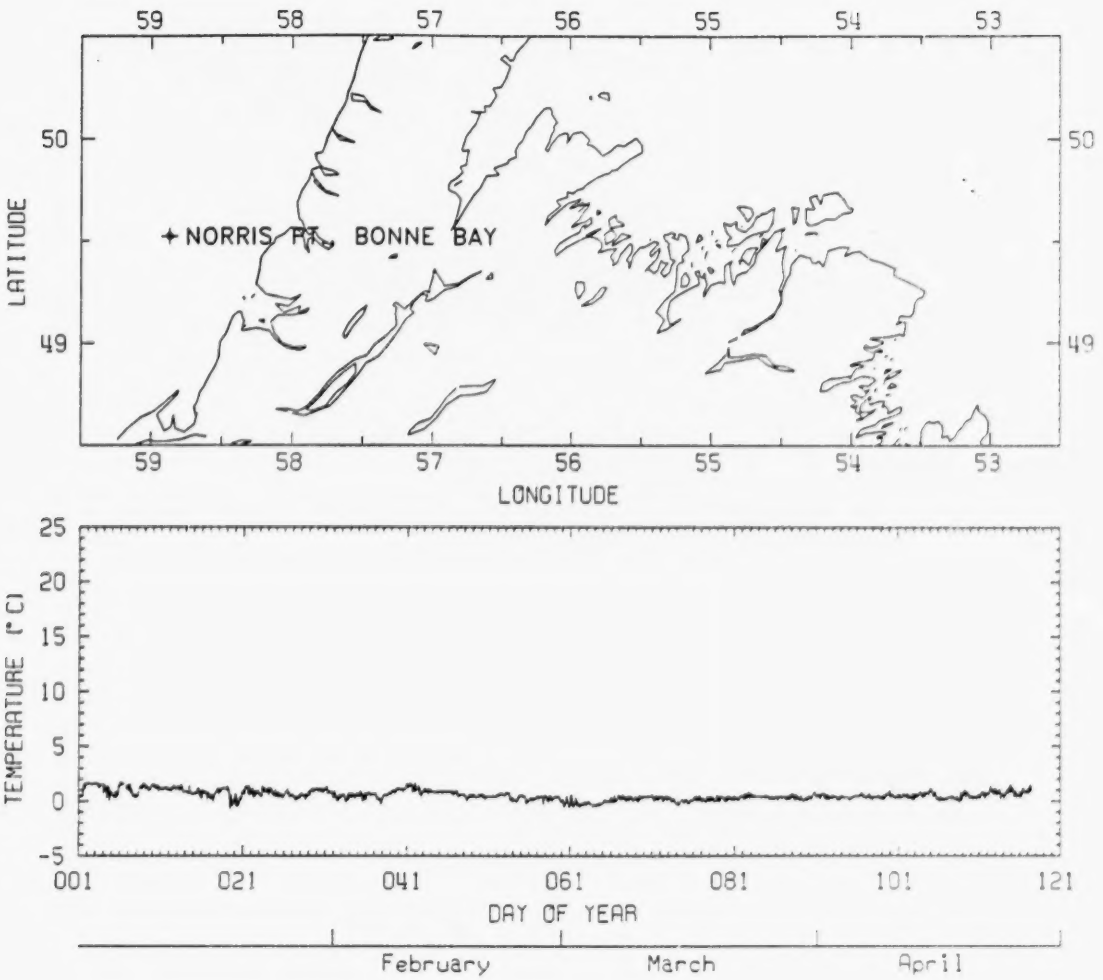
Start: 3-JUN-2000 End:31-DEC-2000 Inst. S/N:4352

THERMOGRAPH DATA SUMMARY

STATION NAME:	NORRIS PT., BONNE BAY
STATION NUMBER:	192
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	004352
LATITUDE:	49.52° N
LONGITUDE:	58.87° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	10 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	01-JAN-2001 00:00 GMT
RECOVERY DATE/TIME:	27-APR-2001 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JAN-2001	-0.70	19	1.70	2	0.89	0.43	27.6	0.0	744
FEB-2001	-0.30	37	1.60	41	0.56	0.34	15.8	0.0	672
MAR-2001	-0.60	60	0.80	82	0.16	0.27	6.3	0.0	744
APR-2001	-0.10	108	1.50	114	0.50	0.27	13.8	0.0	636
T.PERIOD	-0.70	19	1.70	2	0.53	0.43	63.5	0.0	2796



Start: 1-JAN-2001 End: 27-APR-2001 Inst. S/N:4352

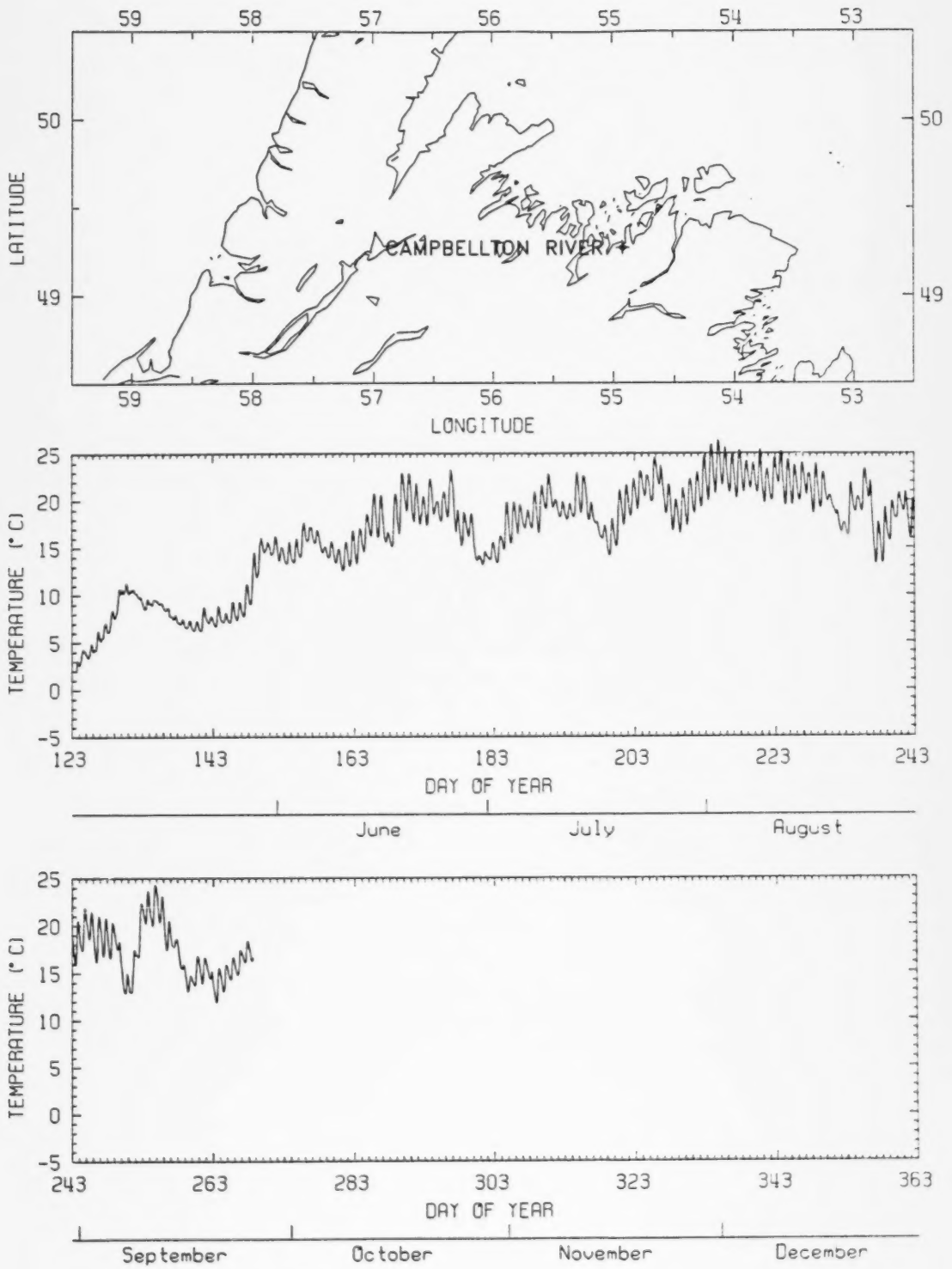
Appendix 15. Time Series Plots and Monthly Statistics from Freshwater Sites around Newfoundland and Labrador.

THERMOGRAPH DATA SUMMARY

STATION NAME:	CAMPBELLTON RIVER
STATION NUMBER:	181
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007929
LATITUDE:	49.27° N
LONGITUDE:	54.92° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	03-MAY-2001 14:00 GMT
RECOVERY DATE/TIME:	25-SEP-2001 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2001	1.90	123	16.20	151	8.43	2.91	241.1	126.9	682
JUN-2001	12.55	161	23.25	176	16.82	2.53	504.7	384.7	720
JUL-2001	13.40	183	24.75	212	19.00	2.40	589.0	465.0	744
AUG-2001	13.30	237	26.35	214	20.67	2.62	640.8	516.8	744
SEP-2001	11.85	263	24.30	254	17.28	2.78	431.7	331.7	591
T.PERIOD	1.90	123	26.35	214	16.54	4.99	2407.3	1825.1	3481



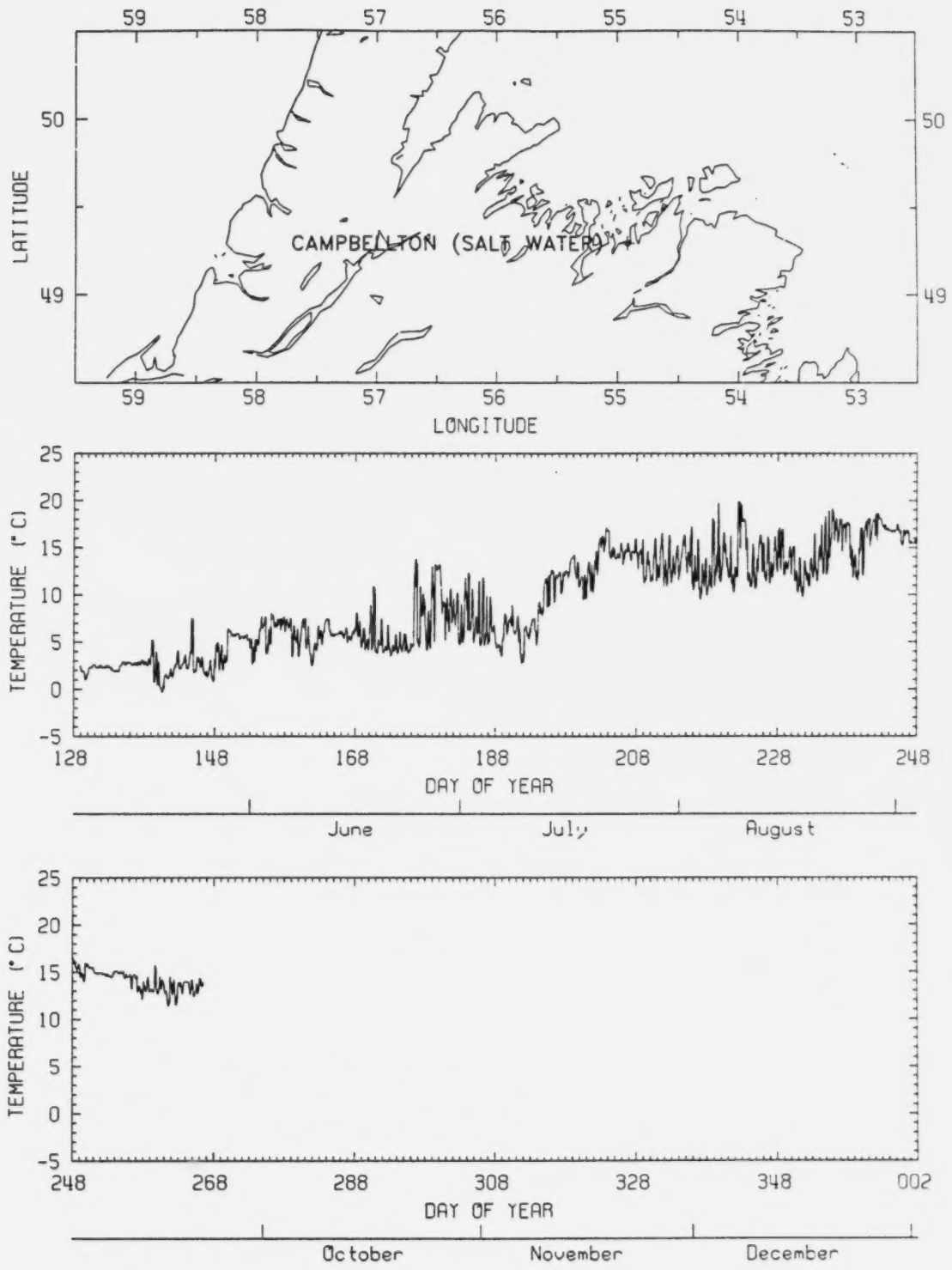
Start: 3-MAY-2001 End:25-SEP-2001 Inst. S/N:7929

THERMOGRAPH DATA SUMMARY

STATION NAME:	CAMPBELLTON (SALT WATER)
STATION NUMBER:	195
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	006441
LATITUDE:	49.29° N
LONGITUDE:	54.92° W
INSTRUMENT DEPTH:	8 m
WATER DEPTH:	8 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	07-MAY-2000 22:00 GMT
RECOVERY DATE/TIME:	22-SEP-2000 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2000	-0.30	140	7.50	144	2.86	1.45	71.1	5.0	578
JUN-2000	2.50	161	13.80	176	6.24	2.16	187.1	67.1	720
JUL-2000	2.80	191	17.10	203	10.68	3.65	331.0	207.0	744
AUG-2000	9.50	217	19.90	222	14.43	2.48	447.2	323.3	744
SEP-2000	11.40	261	17.50	245	14.41	1.22	316.7	228.7	517
T.PERIOD	-0.30	140	19.90	222	9.77	5.05	1353.1	831.0	3303



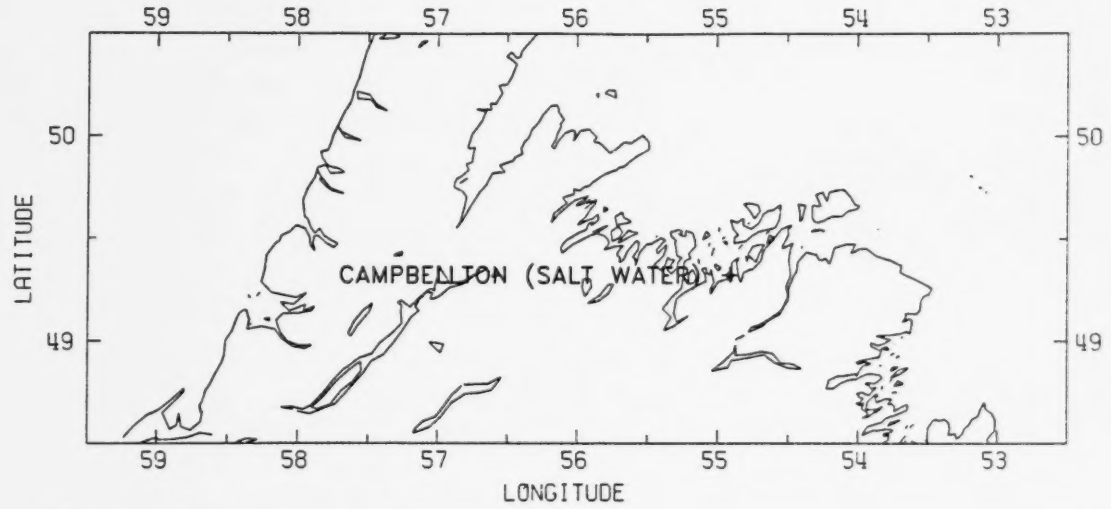
Start: 7-MAY-2000 End:22-SEP-2000 Inst. S/N:6441

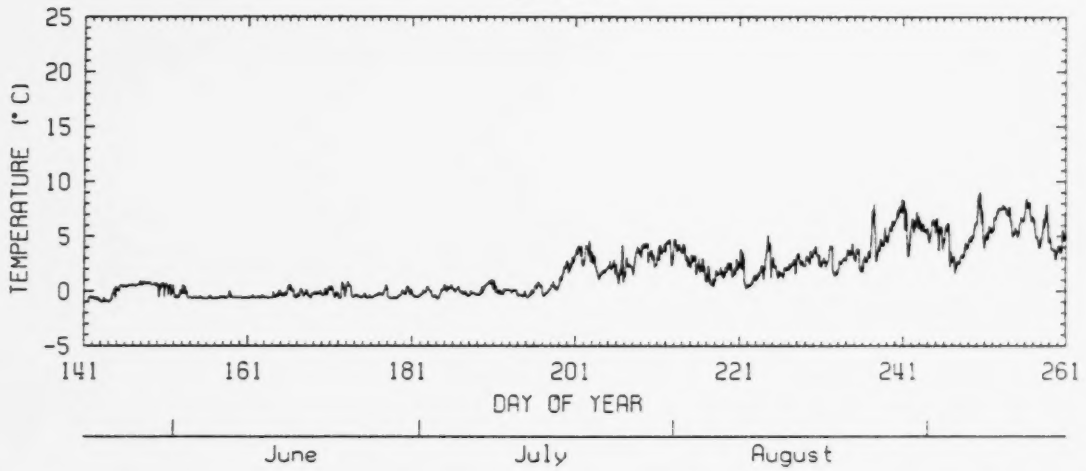
THERMOGRAPH DATA SUMMARY

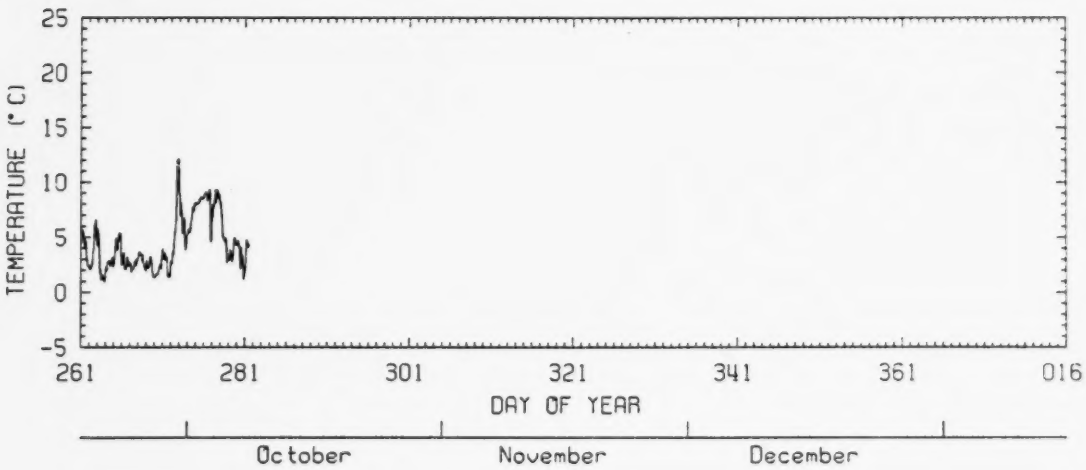
STATION NAME:	CAMPBELLTON (SALT WATER)
STATION NUMBER:	195
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007880
LATITUDE:	49.32° N
LONGITUDE:	54.91° W
INSTRUMENT DEPTH:	20 m
WATER DEPTH:	25 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	21-MAY-2001 13:00 GMT
RECOVERY DATE/TIME:	08-OCT-2001 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2001	-1.05	143	0.90	147	0.08	0.60	3.2	0.0	251
JUN-2001	-0.75	158	0.85	173	-0.38	0.31	0.1	0.0	720
JUL-2001	-0.75	184	4.75	212	1.24	1.55	40.5	0.0	744
AUG-2001	0.20	221	8.35	240	3.15	1.70	97.6	11.6	744
SEP-2001	0.95	263	12.10	272	4.54	1.94	136.2	30.3	720
OCT-2001	1.20	280	9.35	276	6.06	2.32	47.5	16.6	181
T.PERIOD	-1.05	143	12.10	272	2.20	2.54	325.1	58.5	3360







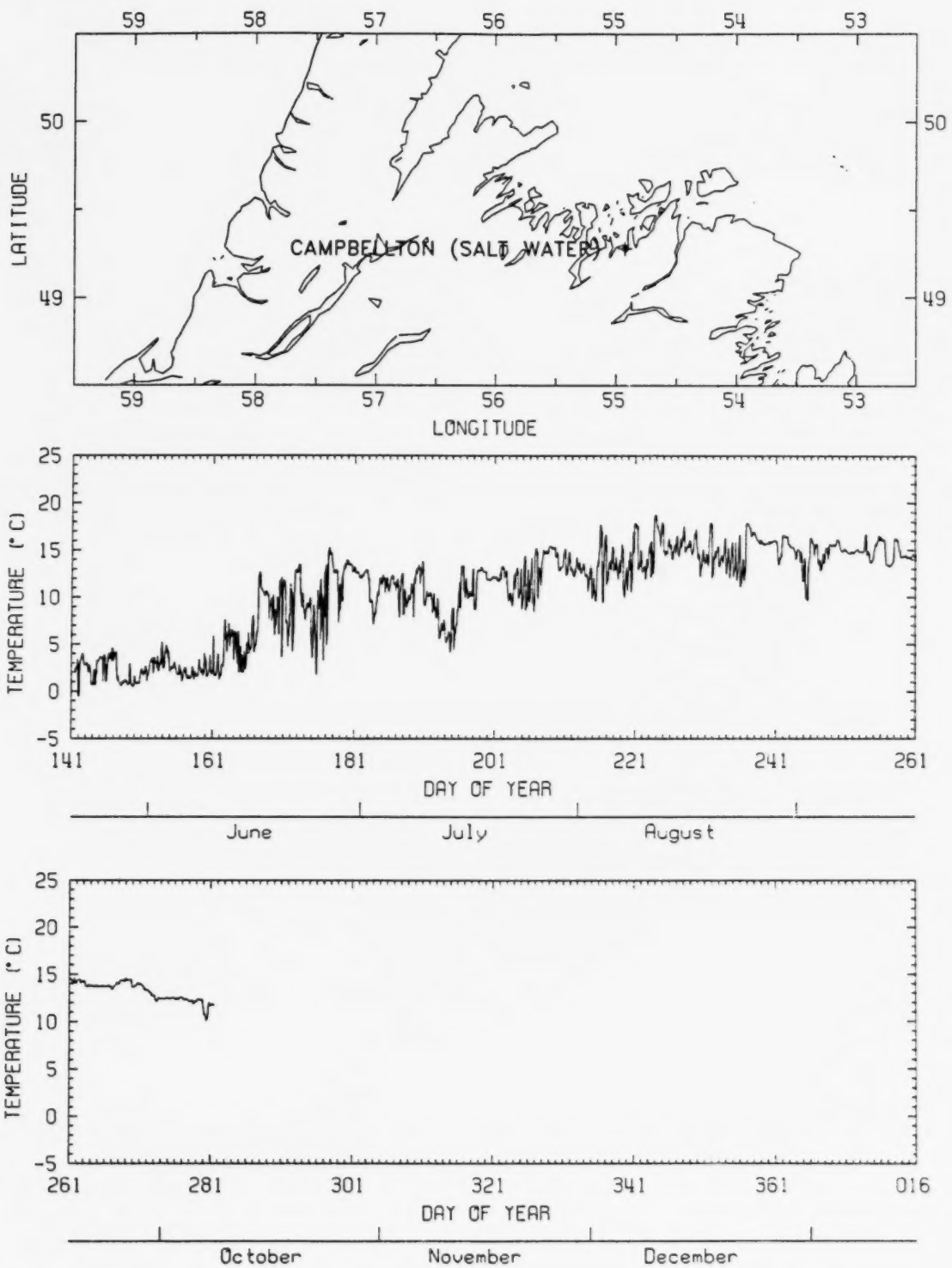
Start:21-MAY-2001 End: 8-OCT-2001 Inst. S/N:7880

THERMOGRAPH DATA SUMMARY

STATION NAME:	CAMPBELLTON (SALT WATER)
STATION NUMBER:	195
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007821
LATITUDE:	49.28° N
LONGITUDE:	54.92° W
INSTRUMENT DEPTH:	7 m
WATER DEPTH:	8 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	21-MAY-2001 13:00 GMT
RECOVERY DATE/TIME:	08-OCT-2001 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2001	-0.60	142	4.60	146	2.16	1.20	23.8	0.0	251
JUN-2001	1.05	156	15.25	177	6.70	4.20	200.9	97.1	720
JUL-2001	4.15	194	15.40	208	11.25	2.33	348.8	224.8	744
AUG-2001	9.40	216	18.70	223	14.60	1.84	452.5	328.5	744
SEP-2001	9.65	245	16.65	253	14.29	1.03	428.6	308.6	720
OCT-2001	10.10	280	12.60	275	12.13	0.53	96.9	64.9	181
T.PERIOD	-0.60	142	18.70	223	11.03	4.60	1551.5	1023.9	3360



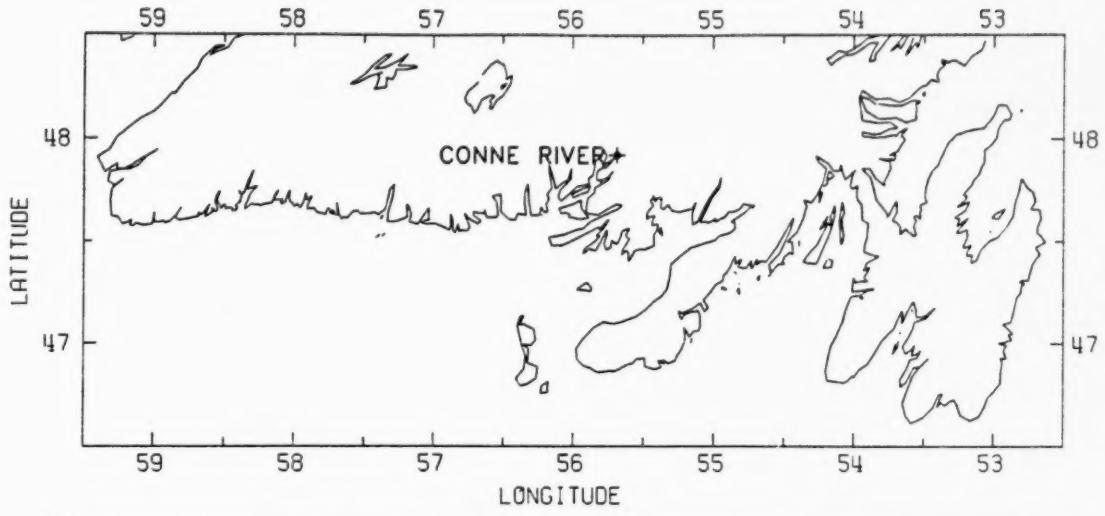
Start:21-MAY-2001 End: 8-OCT-2001 Inst. S/N:7821

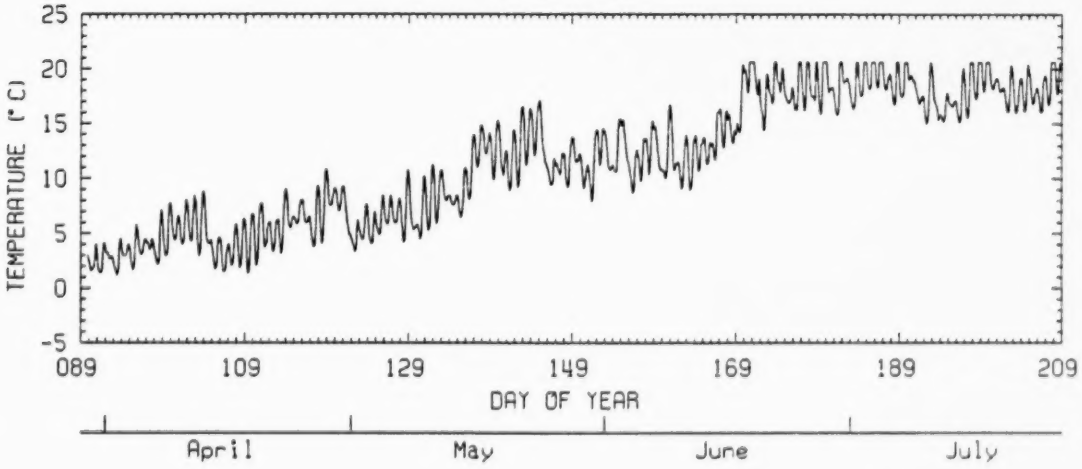
THERMOGRAPH DATA SUMMARY

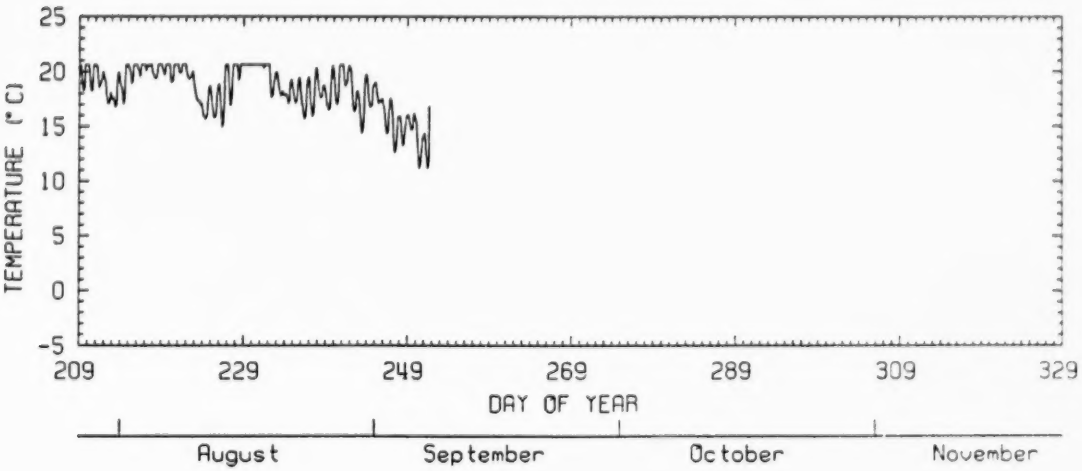
STATION NAME:	CONNE RIVER
STATION NUMBER:	133
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	004347
LATITUDE:	47.92° N
LONGITUDE:	55.68° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	29-MAR-2000 20:00 GMT
RECOVERY DATE/TIME:	07-SEP-2000 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAR-2000	1.40	91	4.10	91	2.43	0.87	7.6	0.0	52
APR-2000	1.20	93	10.80	118	5.04	2.05	151.1	37.9	720
MAY-2000	3.40	122	17.10	145	9.75	3.24	302.4	178.4	744
JUN-2000	8.70	156	20.60	170	15.21	3.37	456.2	336.2	720
JUL-2000	15.00	192	20.60	183	18.39	1.53	570.0	446.0	744
AUG-2000	14.40	243	20.60	214	18.94	1.57	587.1	463.1	744
SEP-2000	11.20	250	19.00	245	15.06	1.86	104.7	76.7	160
T.PERIOD	1.20	93	20.60	170	13.42	5.87	2179.2	1538.4	3884







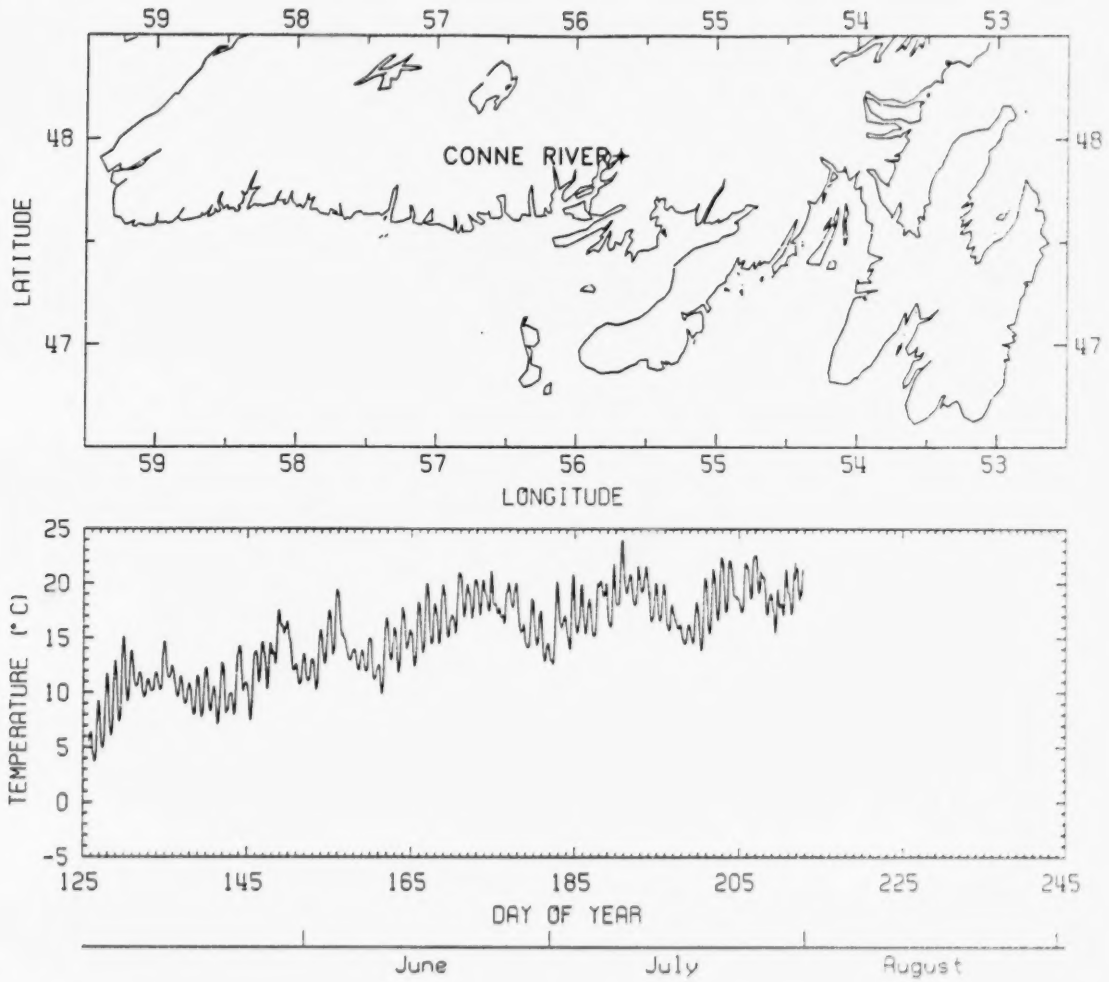
Start:29-MAR-2000 End: 7-SEP-2000 Inst. S/N:4347

THERMOGRAPH DATA SUMMARY

STATION NAME:	CONNE RIVER
STATION NUMBER:	133
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	006436
LATITUDE:	47.92° N
LONGITUDE:	55.68° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	05-MAY-2001 17:00 GMT
RECOVERY DATE/TIME:	31-JUL-2001 19:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2001	3.70	126	17.50	148	10.87	2.57	290.2	182.2	631
JUN-2001	9.90	161	21.10	174	15.73	2.58	471.9	351.9	720
JUL-2001	12.60	182	24.00	190	18.28	2.16	567.0	443.0	740
T.PERIOD	3.70	126	24.00	190	15.17	3.88	1329.2	977.2	2091



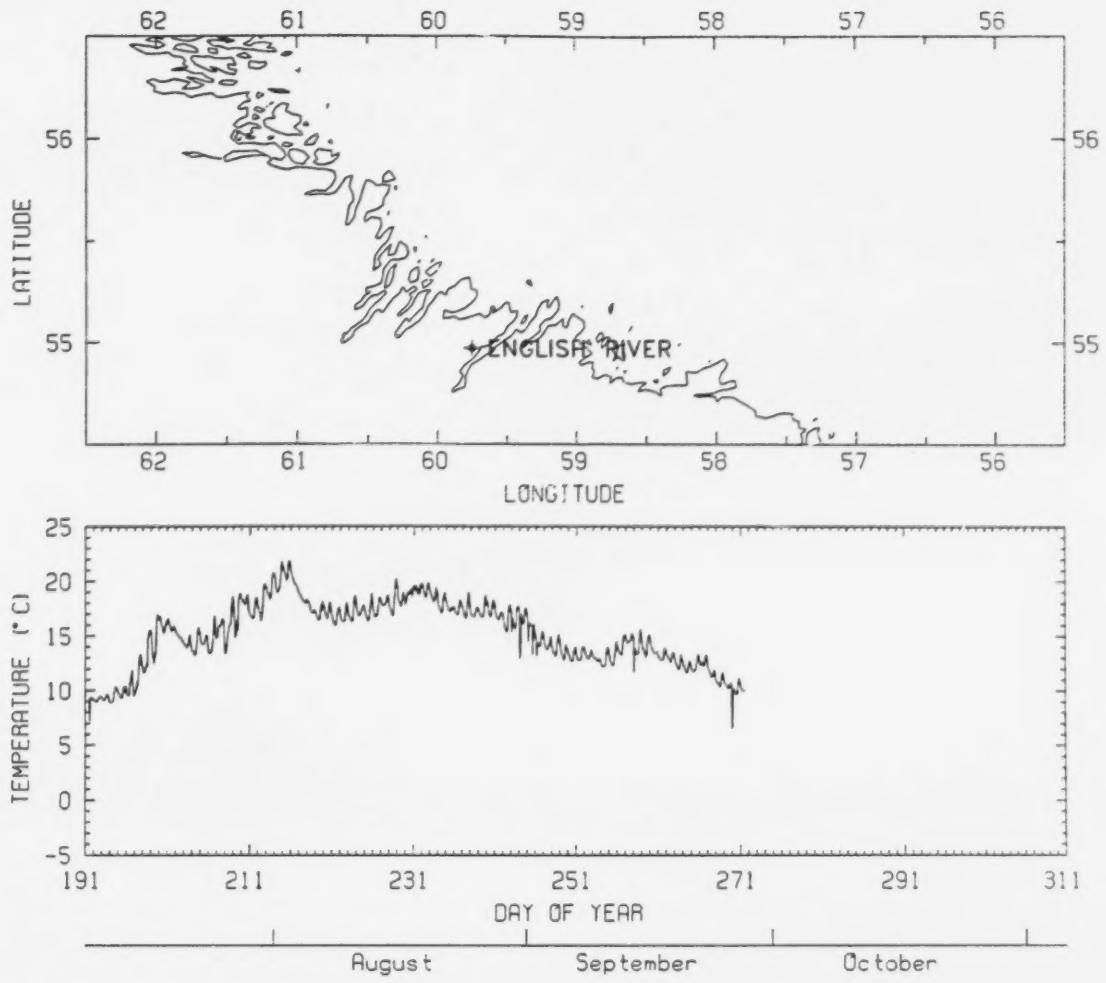
Start: 5-MAY-2001 End: 31-JUL-2001 Inst. S/N:6436

THERMOGRAPH DATA SUMMARY

STATION NAME:	ENGLISH RIVER
STATION NUMBER:	245
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	006743
LATITUDE:	54.97° N
LONGITUDE:	59.75° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	09-JUL-2000 12:00 GMT
RECOVERY DATE/TIME:	27-SEP-2000 10:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2000	7.20	191	20.75	213	14.10	3.20	321.8	229.8	540
AUG-2000	12.95	244	21.85	215	17.81	1.24	552.3	428.3	744
SEP-2000	6.55	269	16.20	245	12.97	1.43	348.5	240.5	635
T.PERIOD	6.55	269	21.85	215	15.17	2.97	1222.6	898.6	1919



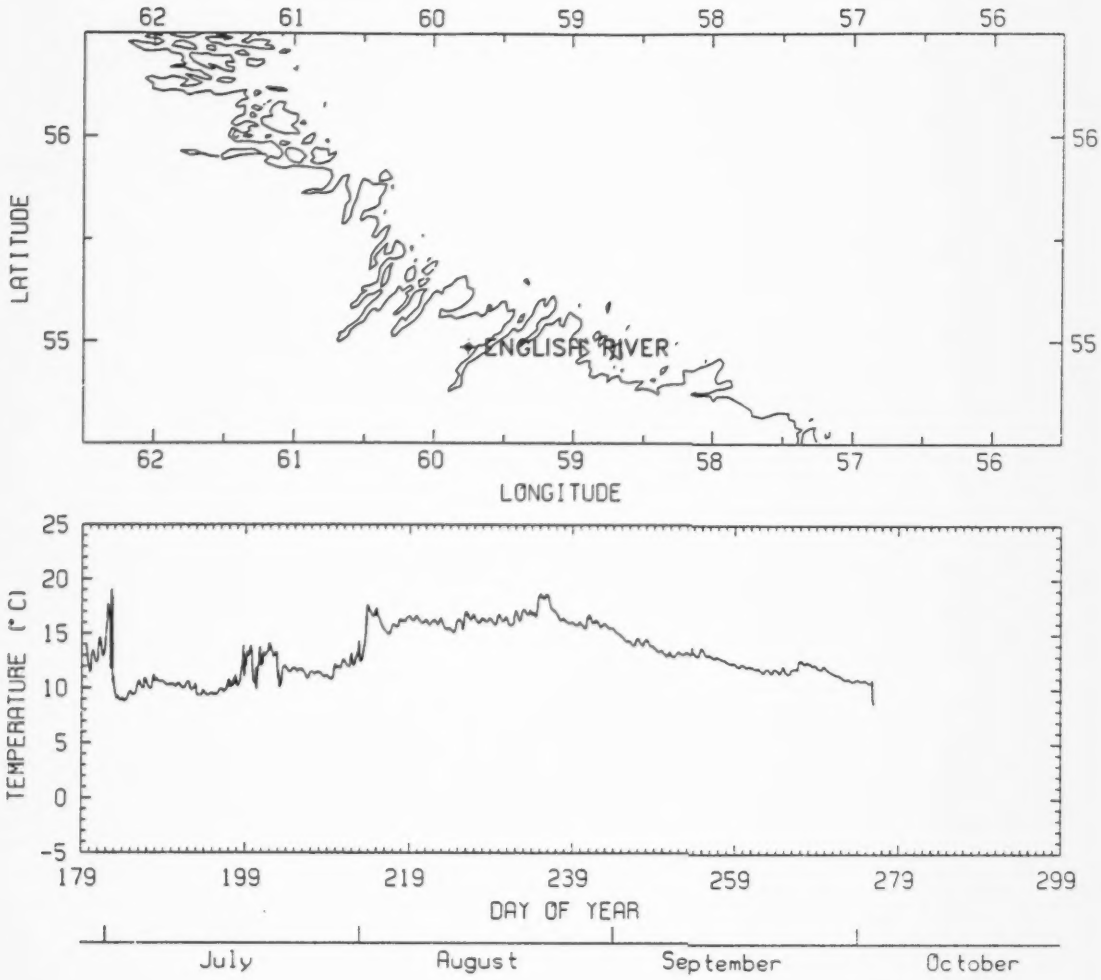
Start: 9-JUL-2000 End: 27-SEP-2000 Inst. S/N:6743

THERMOGRAPH DATA SUMMARY

STATION NAME:	ENGLISH RIVER
STATION NUMBER:	245
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	008957
LATITUDE:	54.97° N
LONGITUDE:	59.75° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	28-JUN-2001 13:00 GMT
RECOVERY DATE/TIME:	02-OCT-2001 22:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2001	11.45	180	15.15	181	13.12	0.85	39.1	27.1	59
JUL-2001	8.75	184	19.05	182	11.07	1.49	343.1	219.1	744
AUG-2001	12.40	213	18.70	235	16.21	0.81	502.7	378.7	744
SEP-2001	10.70	273	15.40	244	12.62	1.06	378.6	258.6	720
OCT-2001	8.65	275	10.90	274	10.58	0.49	21.1	13.1	47
T.PERIOD	8.65	275	19.05	182	13.25	2.43	1284.5	896.5	2314



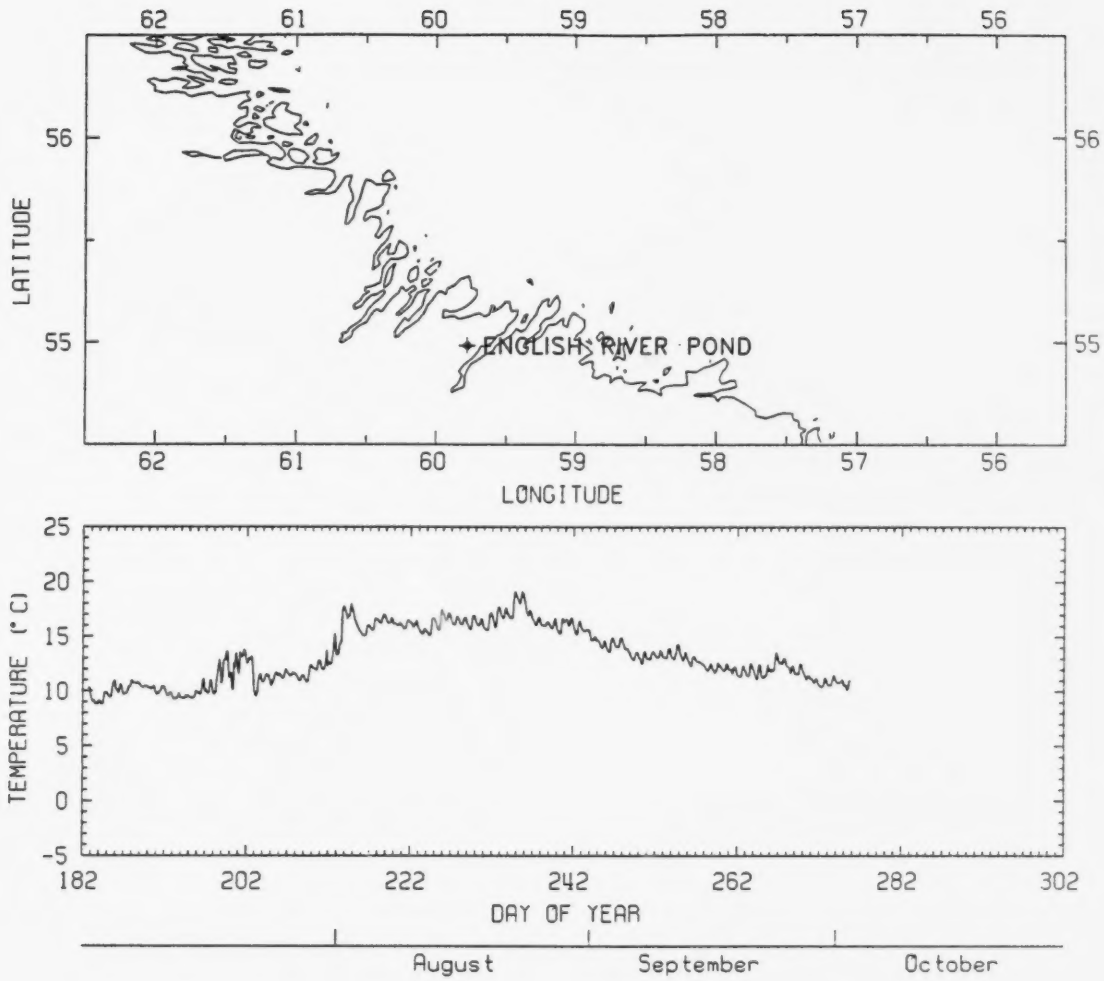
Start: 28-JUN-2001 End: 2-OCT-2001 Inst. S/N:8957

THERMOGRAPH DATA SUMMARY

STATION NAME:	ENGLISH RIVER POND
STATION NUMBER:	271
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	008964
LATITUDE:	54.98° N
LONGITUDE:	59.78° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	01-JUL-2001 16:00 GMT
RECOVERY DATE/TIME:	02-OCT-2001 18:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2001	8.80	183	15.20	212	10.85	1.26	335.8	211.8	728
AUG-2001	13.30	213	19.10	234	16.32	0.83	505.9	381.9	744
SEP-2001	10.40	272	15.20	244	12.59	1.11	377.6	257.6	720
OCT-2001	10.10	275	11.05	274	10.71	0.24	21.4	13.4	43
T.PERIOD	8.80	183	19.10	234	13.23	2.53	1240.7	864.7	2235



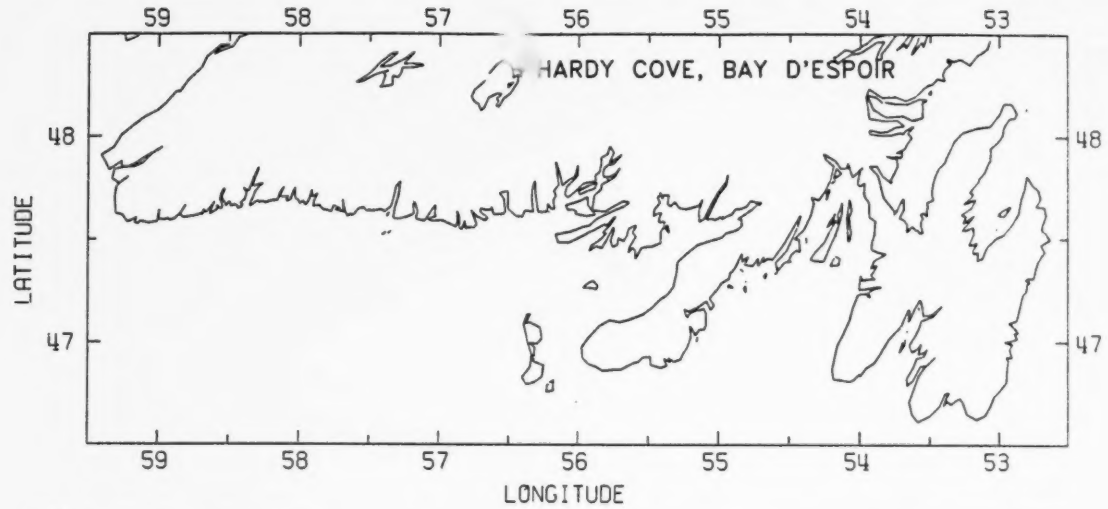
Start: 1-JUL-2001 End: 2-OCT-2001 Inst. S/N:8964

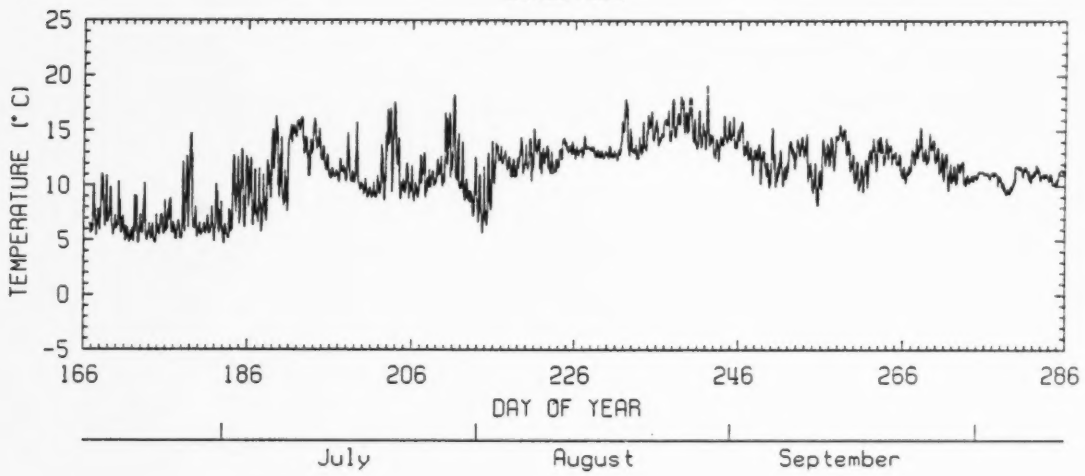
THERMOGRAPH DATA SUMMARY

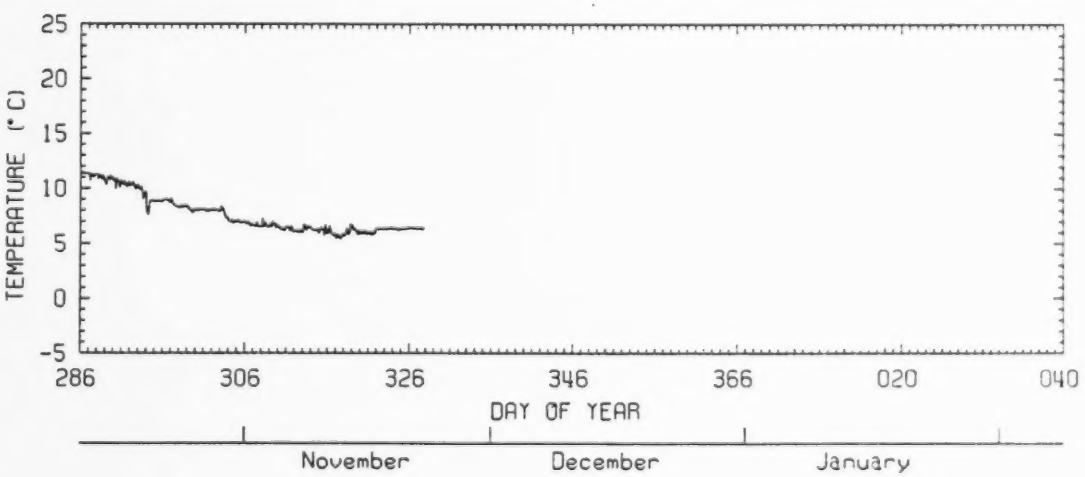
STATION NAME:	HARDY COVE, BAY D'ESPOIR
STATION NUMBER:	268
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007935
LATITUDE:	48.33° N
LONGITUDE:	56.42° W
INSTRUMENT DEPTH:	8 m
WATER DEPTH:	8 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	14-JUN-2000 17:00 GMT
RECOVERY DATE/TIME:	22-NOV-2000 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2000	4.70	172	14.70	179	6.80	1.68	115.1	47.1	391
JUL-2000	4.65	183	18.20	211	11.07	2.53	343.3	219.3	744
AUG-2000	5.65	214	19.10	242	13.38	1.96	414.8	290.7	744
SEP-2000	8.15	255	16.25	245	12.35	1.41	370.6	250.6	720
OCT-2000	6.85	304	11.90	282	9.73	1.43	301.7	177.7	744
NOV-2000	5.40	317	7.30	308	6.31	0.30	138.8	50.8	522
T.PERIOD	4.65	183	19.10	242	10.42	3.03	1684.3	1036.3	3865







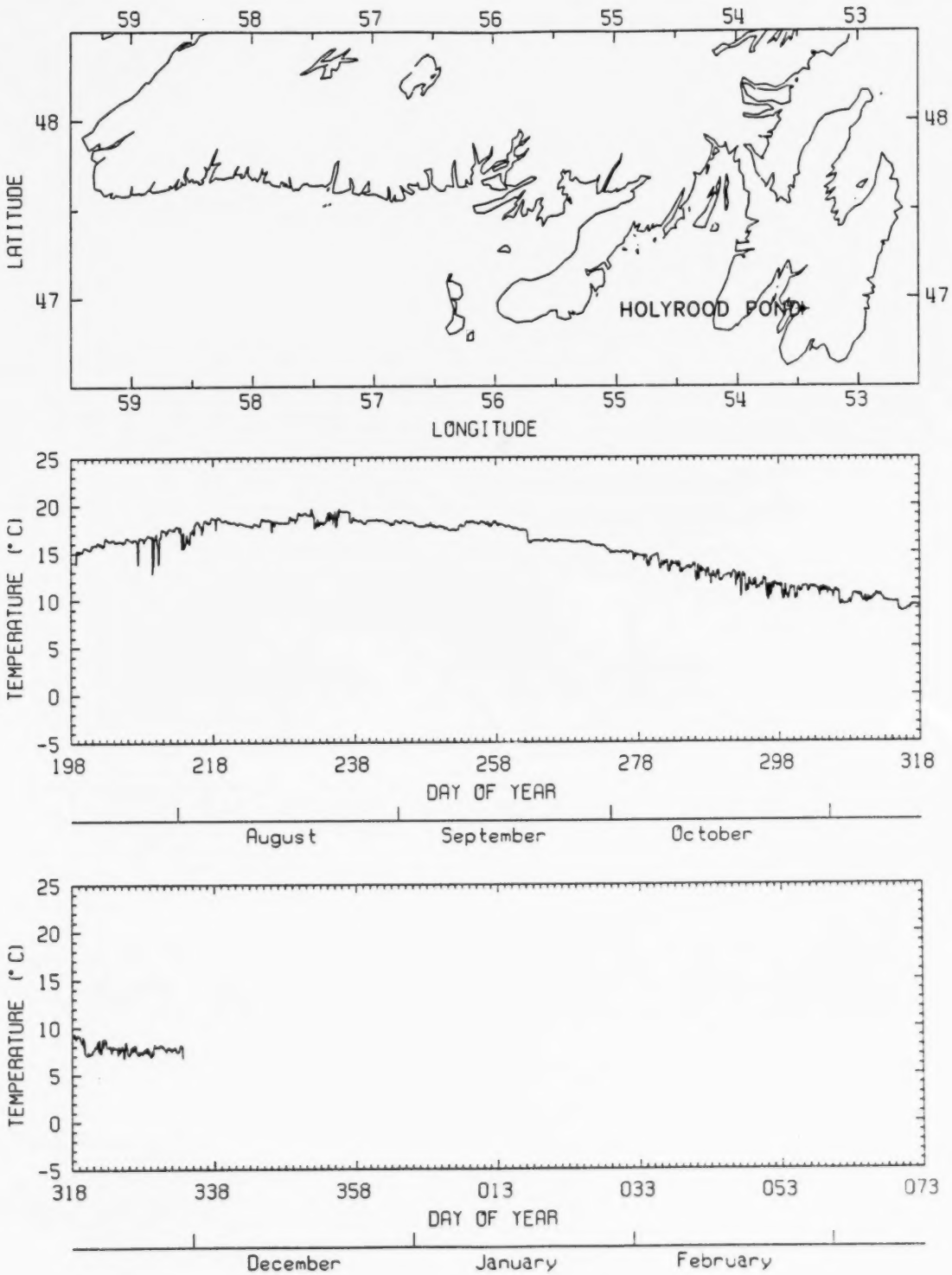
Start:14-JUN-2000 End:22-NOV-2000 Inst. S/N:7935

THERMOGRAPH DATA SUMMARY

STATION NAME:	HOLYROOD POND
STATION NUMBER:	183
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007938
LATITUDE:	46.93° N
LONGITUDE:	53.46° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	90 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	17-JUL-2001 17:00 GMT
RECOVERY DATE/TIME:	29-NOV-2001 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2001	12.80	209	17.80	212	16.25	0.74	243.0	183.0	343
AUG-2001	15.40	213	19.60	231	18.22	0.61	564.8	440.8	744
SEP-2001	15.20	273	18.40	244	17.12	0.92	513.6	393.6	720
OCT-2001	9.90	296	15.20	274	12.66	1.45	392.4	268.4	744
NOV-2001	6.75	325	11.10	305	8.76	1.16	253.6	137.6	687
T.PERIOD	6.75	325	19.60	231	14.48	3.73	1967.4	1423.4	3238



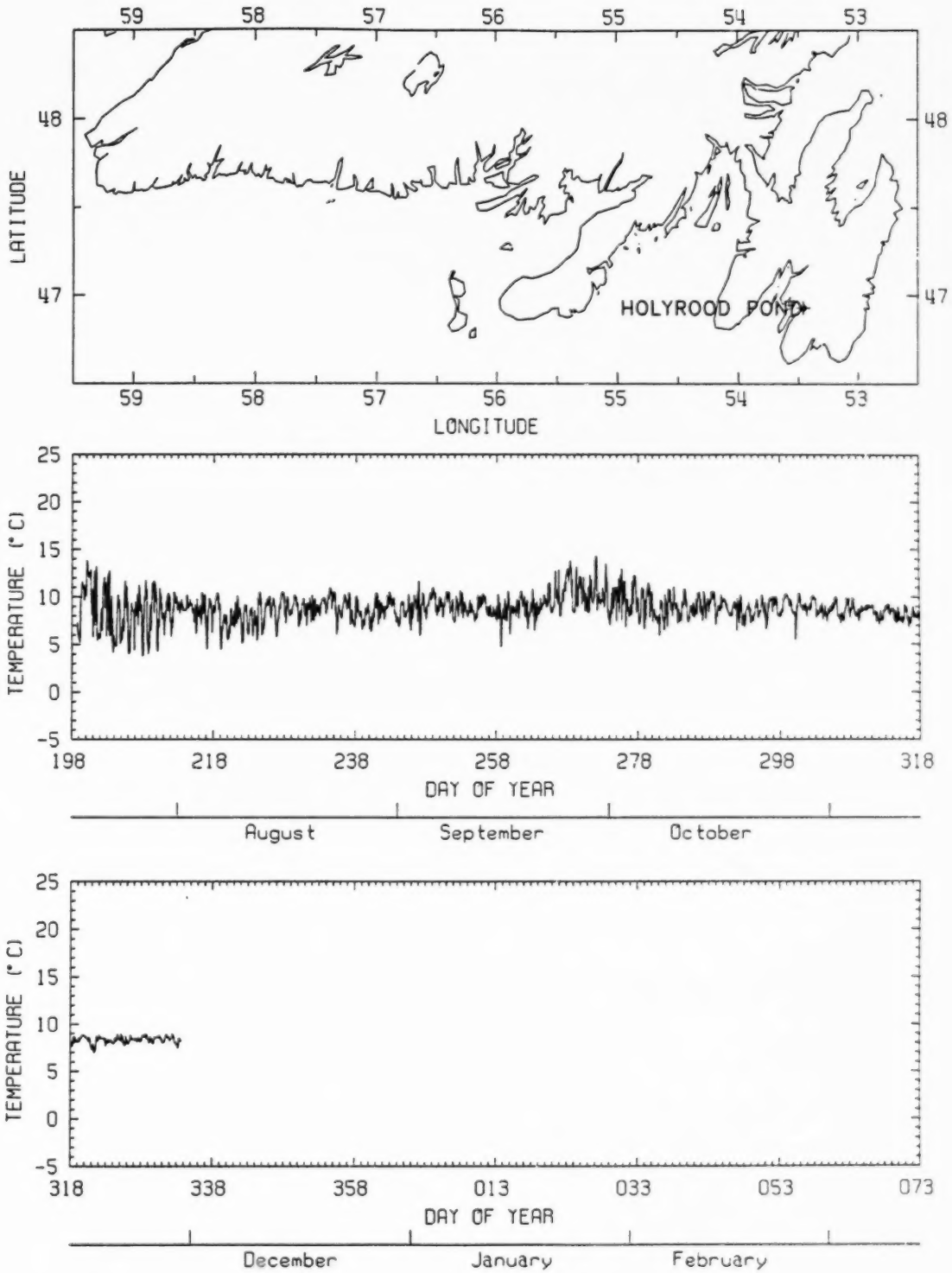
Start:17-JUL-2001 End:29-NOV-2001 Inst. S/N:7938

THERMOGRAPH DATA SUMMARY

STATION NAME:	HOLYROOD POND
STATION NUMBER:	183
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	004333
LATITUDE:	46.93° N
LONGITUDE:	53.46° W
INSTRUMENT DEPTH:	50 m
WATER DEPTH:	90 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	17-JUL-2001 19:00 GMT
RECOVERY DATE/TIME:	29-NOV-2001 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2001	3.80	208	13.80	200	8.50	2.27	125.7	65.7	341
AUG-2001	4.45	219	10.90	234	8.49	1.16	263.2	139.2	744
SEP-2001	4.75	258	14.20	272	9.24	1.32	277.2	157.2	720
OCT-2001	5.45	300	12.90	275	8.96	1.07	277.6	153.6	744
NOV-2001	6.80	316	10.00	305	8.35	0.50	242.1	126.1	687
T.PERIOD	3.80	208	14.20	272	8.74	1.30	1185.9	641.9	3236



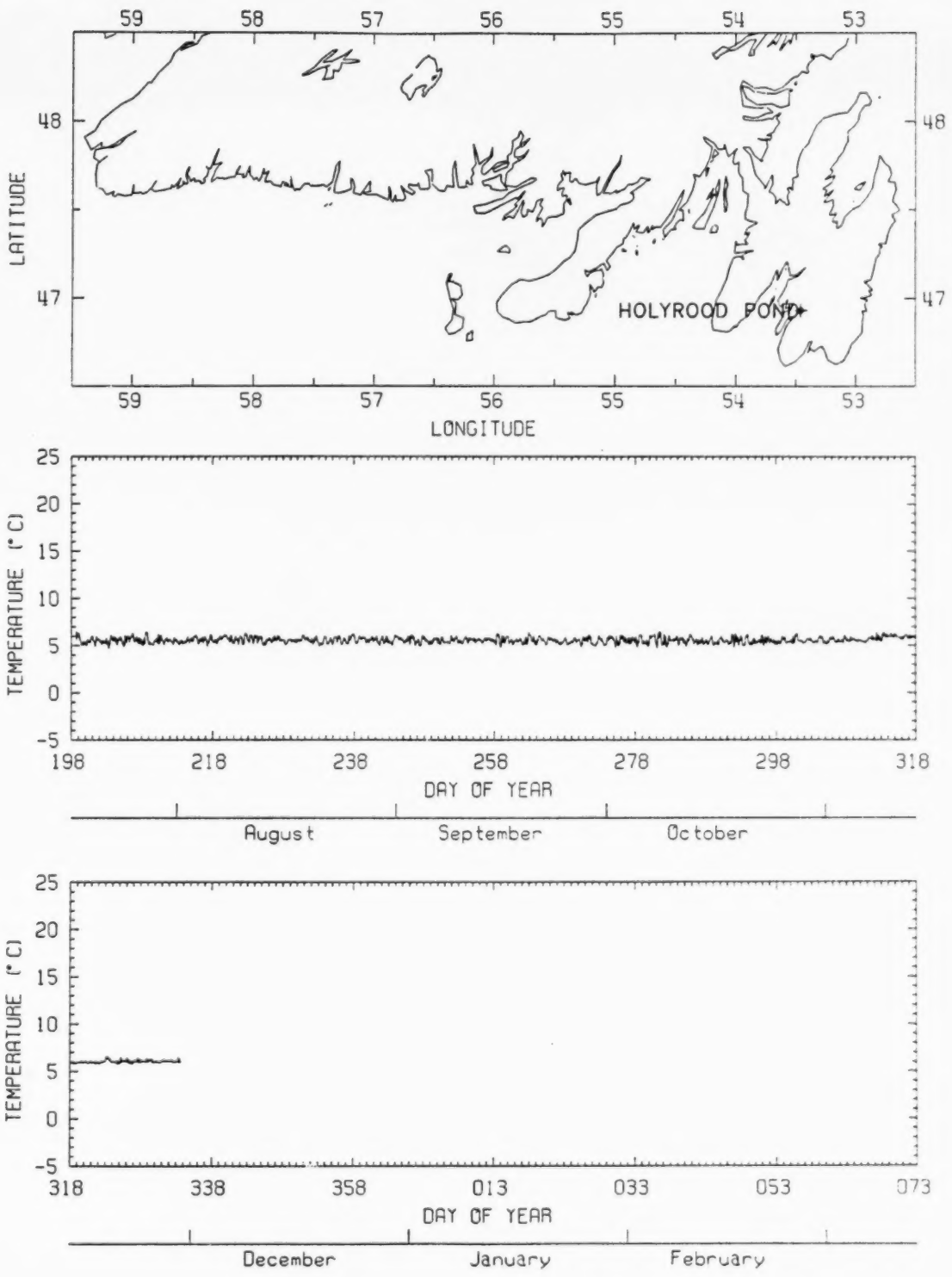
Start:17-JUL-2001 End:29-NOV-2001 Inst. S/N:4333

THERMOGRAPH DATA SUMMARY

STATION NAME:	HOLYROOD POND
STATION NUMBER:	183
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	005456
LATITUDE:	46.93° N
LONGITUDE:	53.46° W
INSTRUMENT DEPTH:	70 m
WATER DEPTH:	90 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	17-JUL-2001 17:00 GMT
RECOVERY DATE/TIME:	29-NOV-2001 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2001	4.70	203	6.50	198	5.53	0.33	83.3	23.3	343
AUG-2001	4.85	233	6.30	222	5.57	0.28	172.6	48.6	744
SEP-2001	4.80	258	6.40	262	5.52	0.28	165.5	45.5	720
OCT-2001	4.70	281	6.45	281	5.52	0.33	171.1	47.1	744
NOV-2001	5.15	305	6.50	323	5.89	0.25	171.0	55.0	687
T.PERIOD	4.70	203	6.50	198	5.61	0.33	763.5	219.5	3238



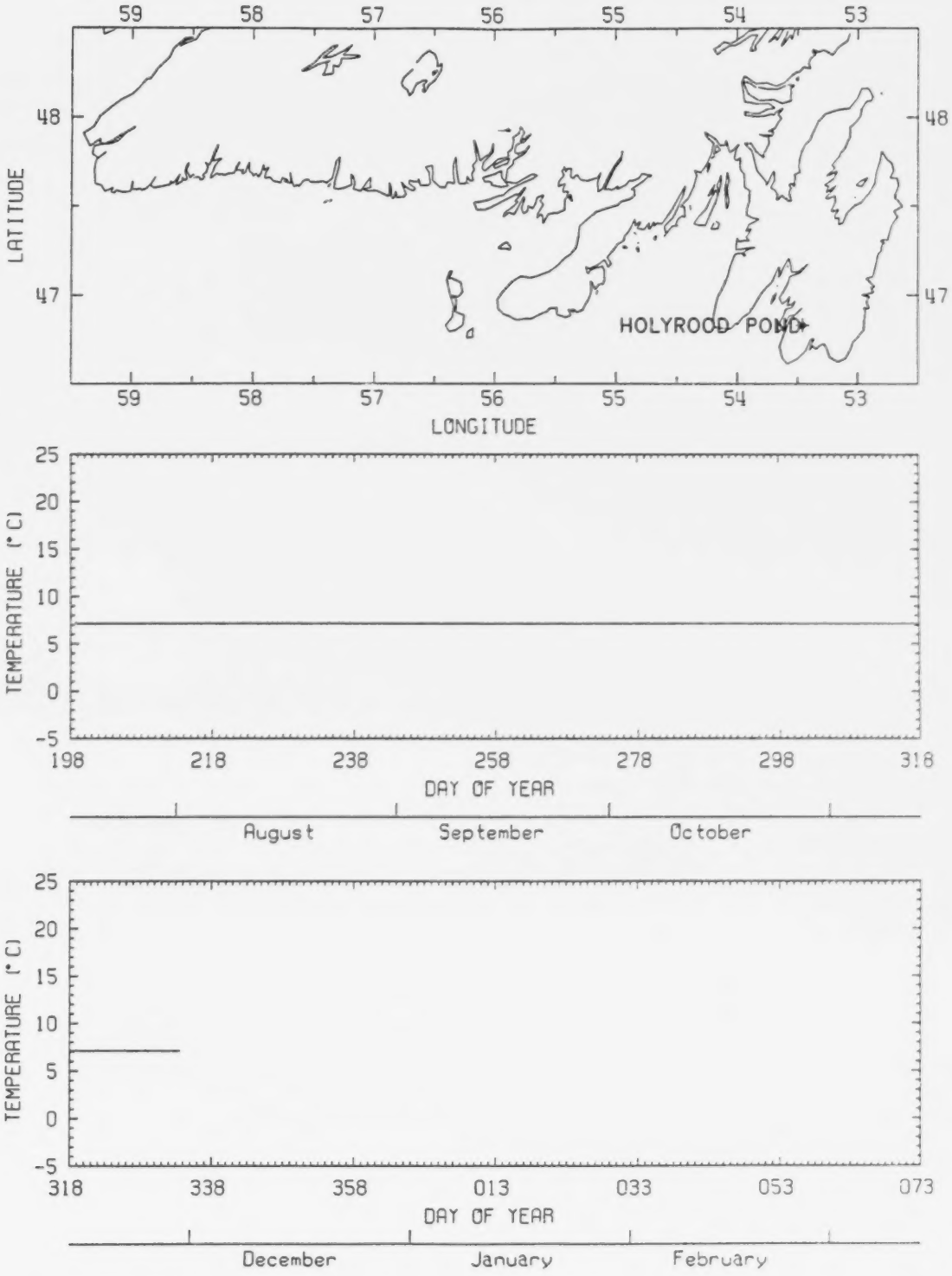
Start:17-JUL-2001 End:29-NOV-2001 Inst. S/N:5456

THERMOGRAPH DATA SUMMARY

STATION NAME:	HOLYROOD POND
STATION NUMBER:	183
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	006788
LATITUDE:	46.83° N
LONGITUDE:	53.46° W
INSTRUMENT DEPTH:	90 m
WATER DEPTH:	90 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	17-JUL-2001 17:00 GMT
RECOVERY DATE/TIME:	29-NOV-2001 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2001	7.10	199	7.30	198	7.14	0.02	107.2	47.2	343
AUG-2001	7.10	213	7.20	218	7.14	0.02	221.2	97.2	744
SEP-2001	7.05	260	7.20	262	7.12	0.03	213.7	93.7	720
OCT-2001	7.05	300	7.15	274	7.12	0.02	220.7	96.7	744
NOV-2001	7.05	320	7.15	305	7.11	0.02	206.1	90.1	687
T.PERIOD	7.05	260	7.30	198	7.12	0.03	968.9	424.9	3238



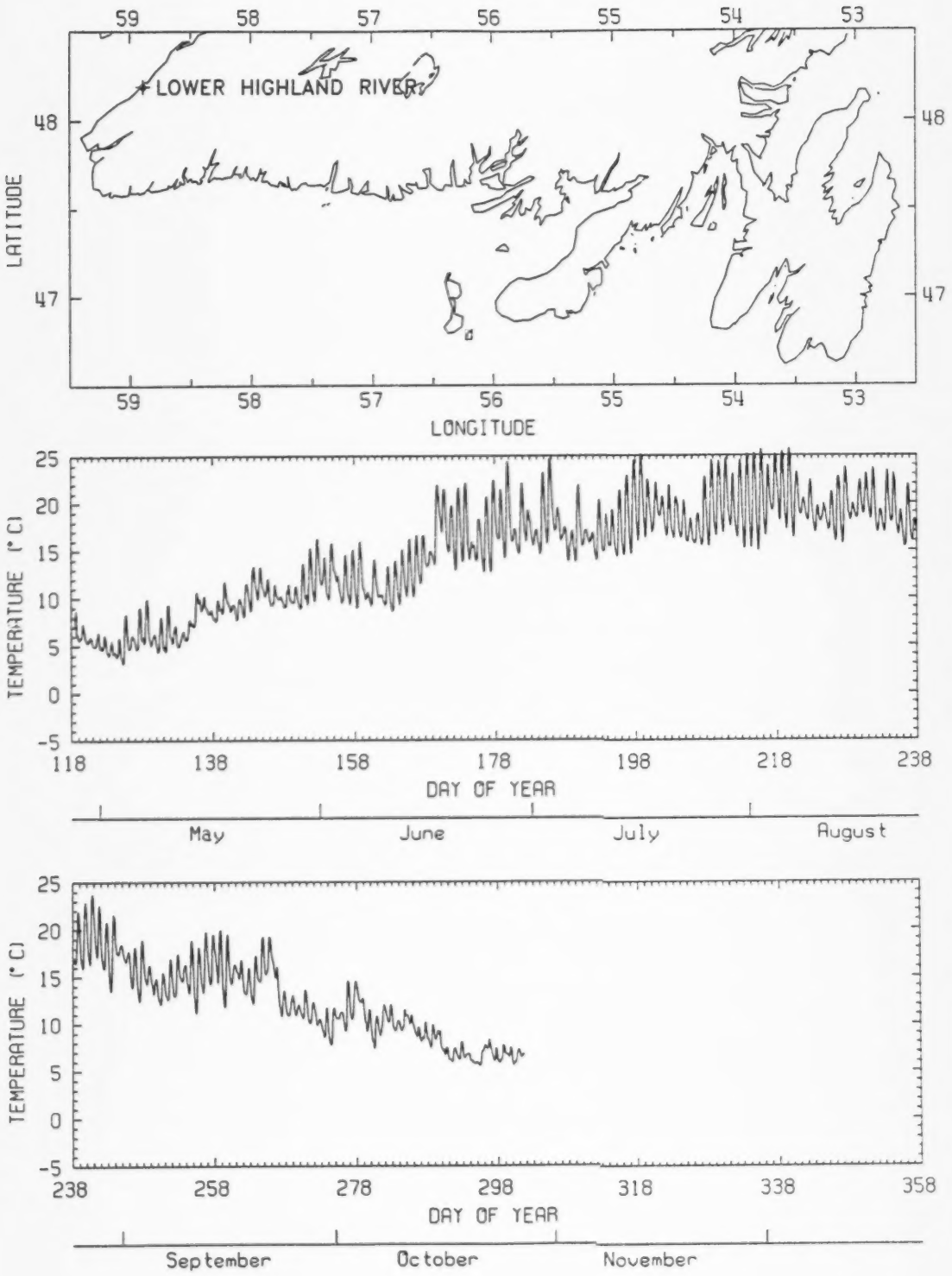
Start:17-JUL-2001 End:29-NOV-2001 Inst. S/N:6788

THERMOGRAPH DATA SUMMARY

STATION NAME:	LOWER HIGHLAND RIVER
STATION NUMBER:	190
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	006250
LATITUDE:	48.19° N
LONGITUDE:	58.89° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	27-APR-2000 12:00 GMT
RECOVERY DATE/TIME:	27-OCT-2000 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
APR-2000	4.90	121	8.70	118	5.86	0.70	23.9	7.9	84
MAY-2000	3.10	125	16.20	152	8.20	2.61	254.2	130.2	744
JUN-2000	8.60	163	24.40	179	14.47	3.55	434.2	314.2	720
JUL-2000	13.80	188	25.10	198	18.29	2.66	566.9	442.9	744
AUG-2000	13.50	243	25.70	219	19.39	2.39	601.2	477.2	744
SEP-2000	7.80	274	19.90	258	14.25	2.59	427.5	307.5	720
OCT-2000	5.60	295	14.50	276	8.68	2.13	233.5	125.5	639
T.PERIOD	3.10	125	25.70	219	13.85	5.13	2541.4	1805.4	4395



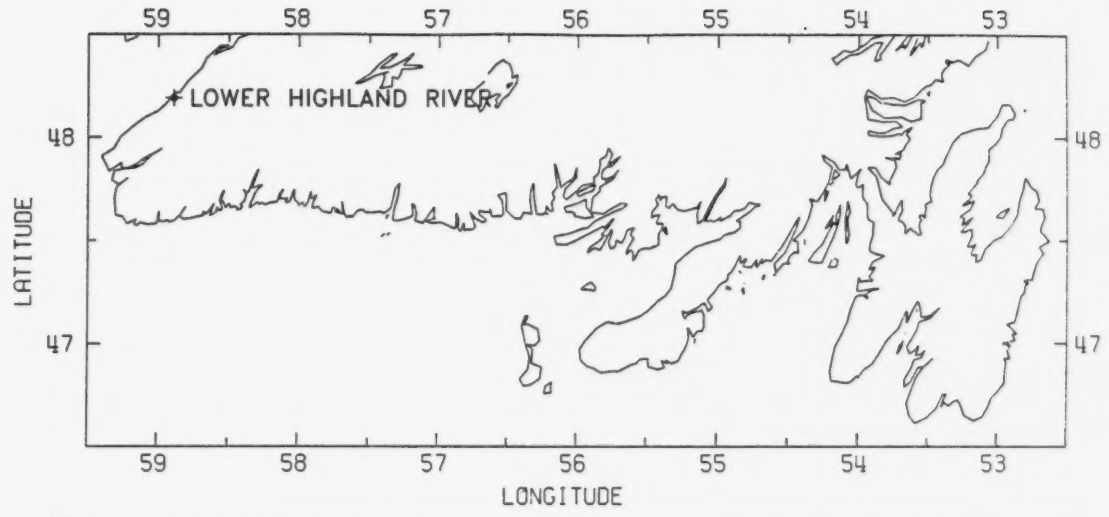
Start:27-APR-2000 End:27-OCT-2000 Inst. S/N:6250

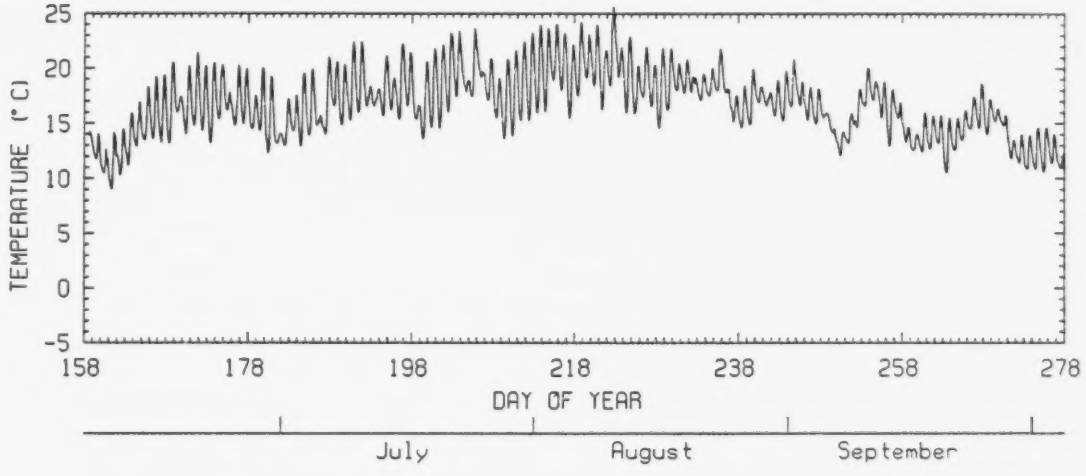
THERMOGRAPH DATA SUMMARY

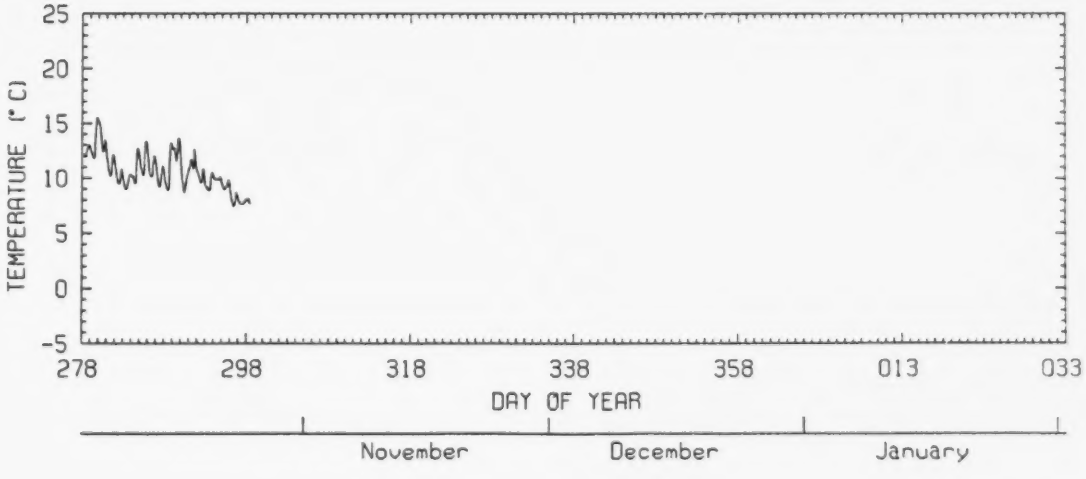
STATION NAME:	LOWER HIGHLAND RIVER
STATION NUMBER:	190
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	004019
LATITUDE:	48.19° N
LONGITUDE:	58.89° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	07-JUN-2001 16:00 GMT
RECOVERY DATE/TIME:	25-OCT-2001 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2001	9.00	161	21.40	171	15.37	2.63	368.0	272.0	560
JUL-2001	12.90	184	23.60	205	17.78	2.42	551.2	427.2	744
AUG-2001	14.50	228	25.60	222	18.89	2.19	585.4	461.4	744
SEP-2001	10.50	263	20.80	244	15.14	1.99	454.3	334.3	720
OCT-2001	7.50	296	15.50	279	10.86	1.76	270.2	170.2	589
T.PERIOD	7.50	296	25.60	222	15.84	3.51	2229.1	1665.1	3357







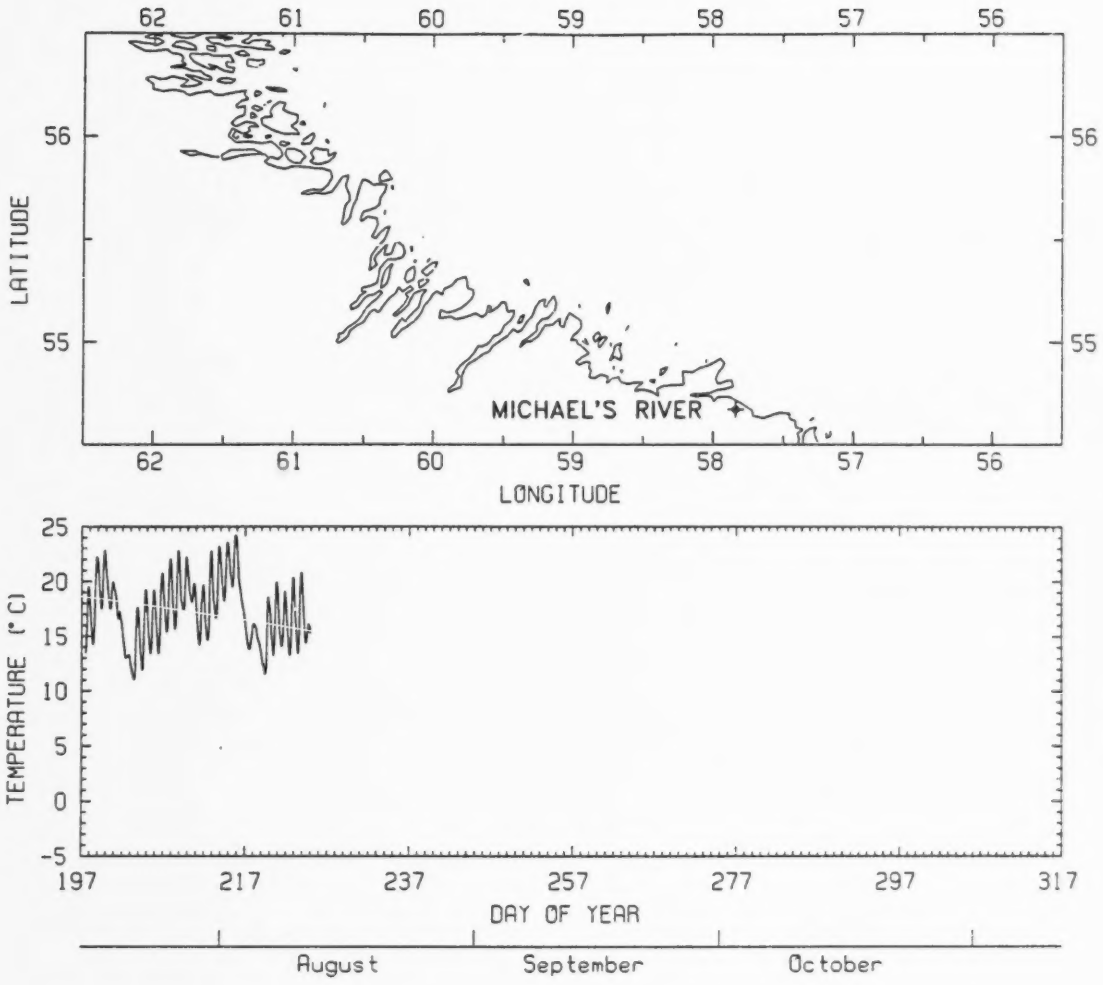
Start: 7-JUN-2001 End:25-OCT-2001 Inst. S/N:4019

THERMOGRAPH DATA SUMMARY

STATION NAME:	MICHAEL'S RIVER
STATION NUMBER:	216
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	005459
LATITUDE:	54.67° N
LONGITUDE:	57.84° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	15-JUL-2000 12:00 GMT
RECOVERY DATE/TIME:	11-AUG-2000 22:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2000	11.00	203	23.20	213	17.48	2.84	296.9	228.9	396
AUG-2000	11.55	219	24.20	215	17.01	3.00	187.0	143.0	263
T.PERIOD	11.00	203	24.20	215	17.29	2.91	484.0	372.0	659



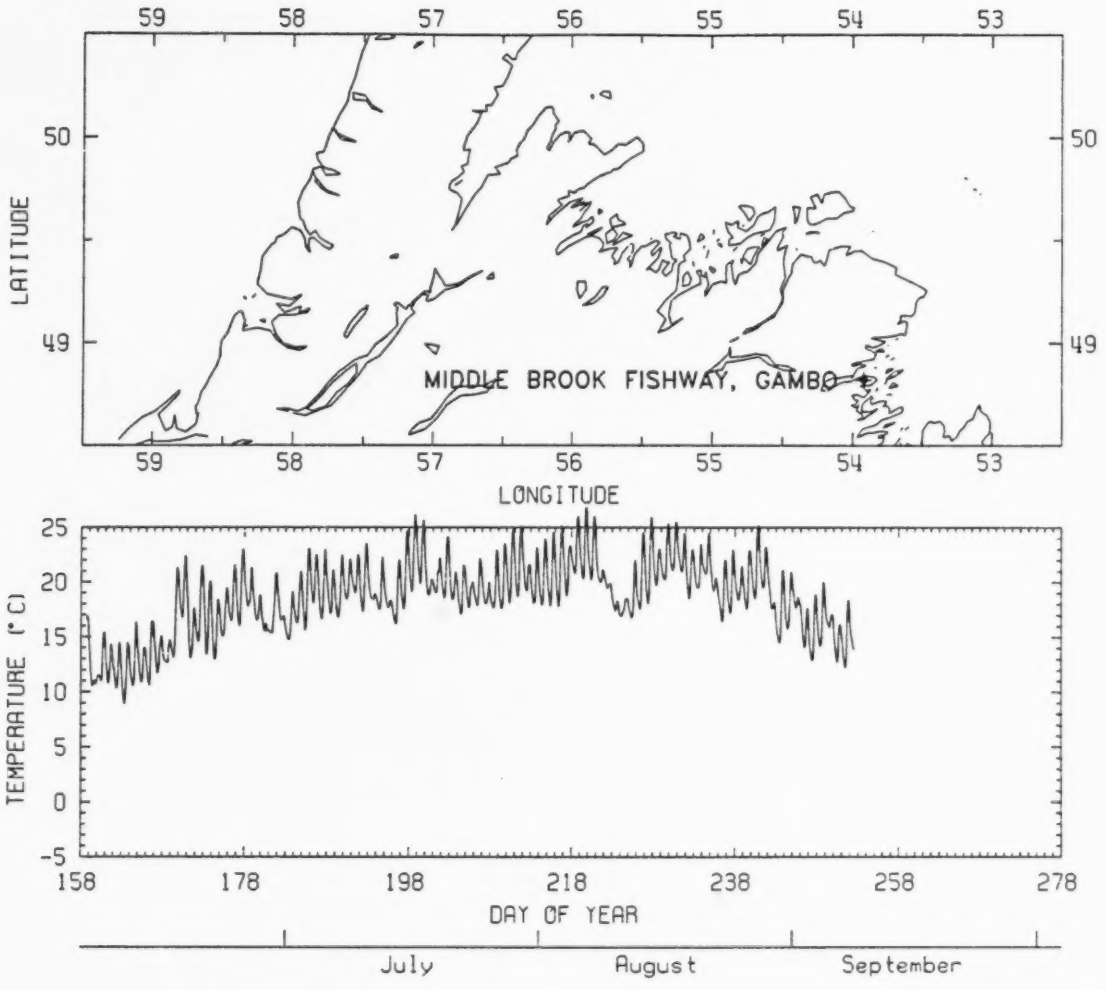
Start: 15-JUL-2000 End: 11-AUG-2000 Inst. S/N:5459

THERMOGRAPH DATA SUMMARY

STATION NAME:	MIDDLE BROOK FISHWAY, GAMBO
STATION NUMBER:	124
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007934
LATITUDE:	48.82° N
LONGITUDE:	53.92° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	06-JUN-2000 18:00 GMT
RECOVERY DATE/TIME:	08-SEP-2000 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2000	8.90	163	23.00	177	15.36	3.12	384.6	284.6	582
JUL-2000	14.75	183	26.15	198	19.71	2.11	611.0	487.0	744
AUG-2000	14.50	243	26.85	219	20.47	2.41	634.6	510.6	744
SEP-2000	12.20	251	20.00	248	15.92	1.91	126.7	94.7	180
T.PERIOD	8.90	163	26.85	219	18.53	3.33	1757.0	1377.0	2250



Start: 6-JUN-2000 End: 8-SEP-2000 Inst. S/N:7934

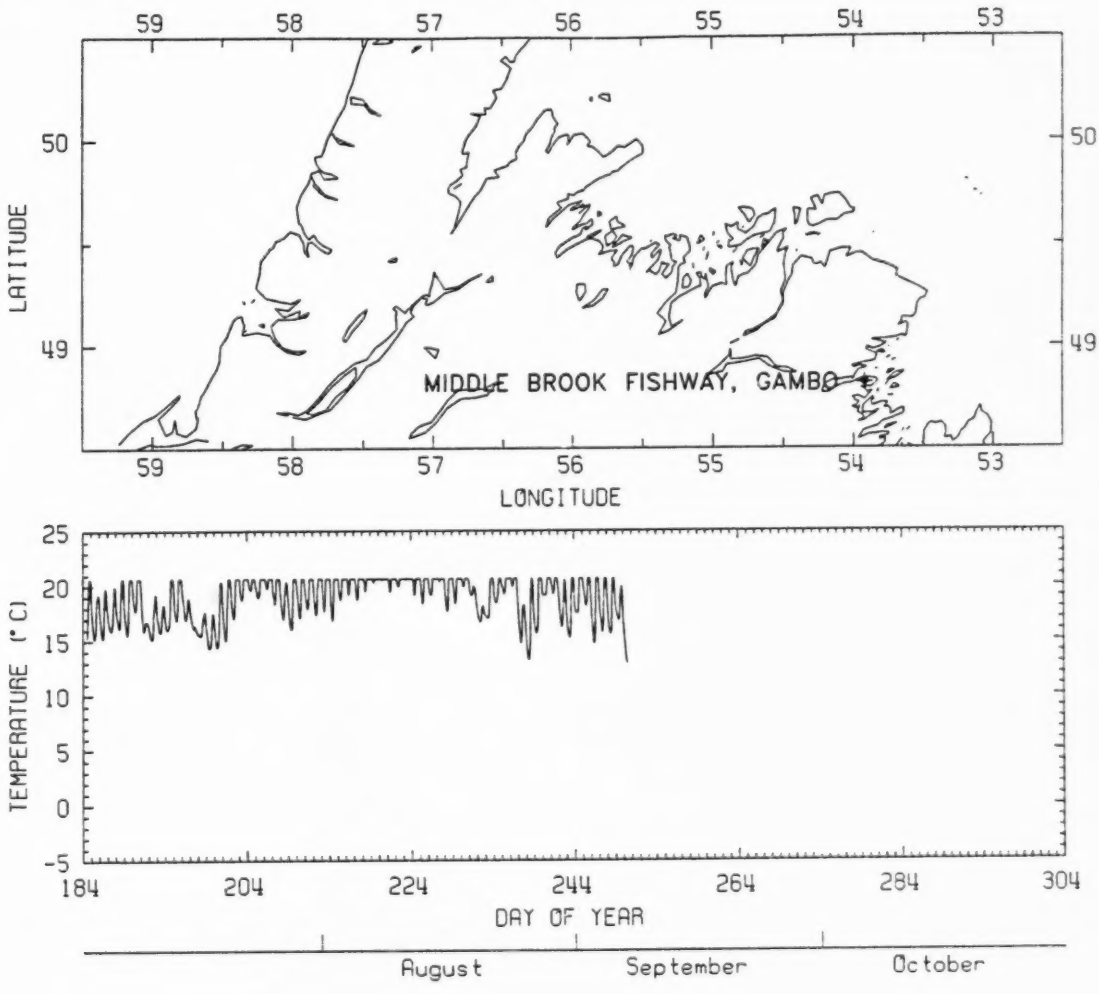
THERMOGRAPH DATA SUMMARY

STATION NAME:	MIDDLE BROOK FISHWAY, GAMBO
STATION NUMBER:	124
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	003827
LATITUDE:	48.82° N
LONGITUDE:	53.92° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	03-JUL-2001 12:00 GMT
RECOVERY DATE/TIME:	07-SEP-2001 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2001	14.30	199	20.60	184	18.22	1.88	528.7	412.7	684
AUG-2001	13.20	238	20.60	213	19.55	1.55	606.0	482.0	744
SEP-2001	12.90	250	20.60	244	18.15	1.99	125.2	97.2	156
T.PERIOD	12.90	250	20.60	184	18.84	1.87	1259.9	991.9	1584

NOTE: Temperatures exceeded Max. range of thermograph.



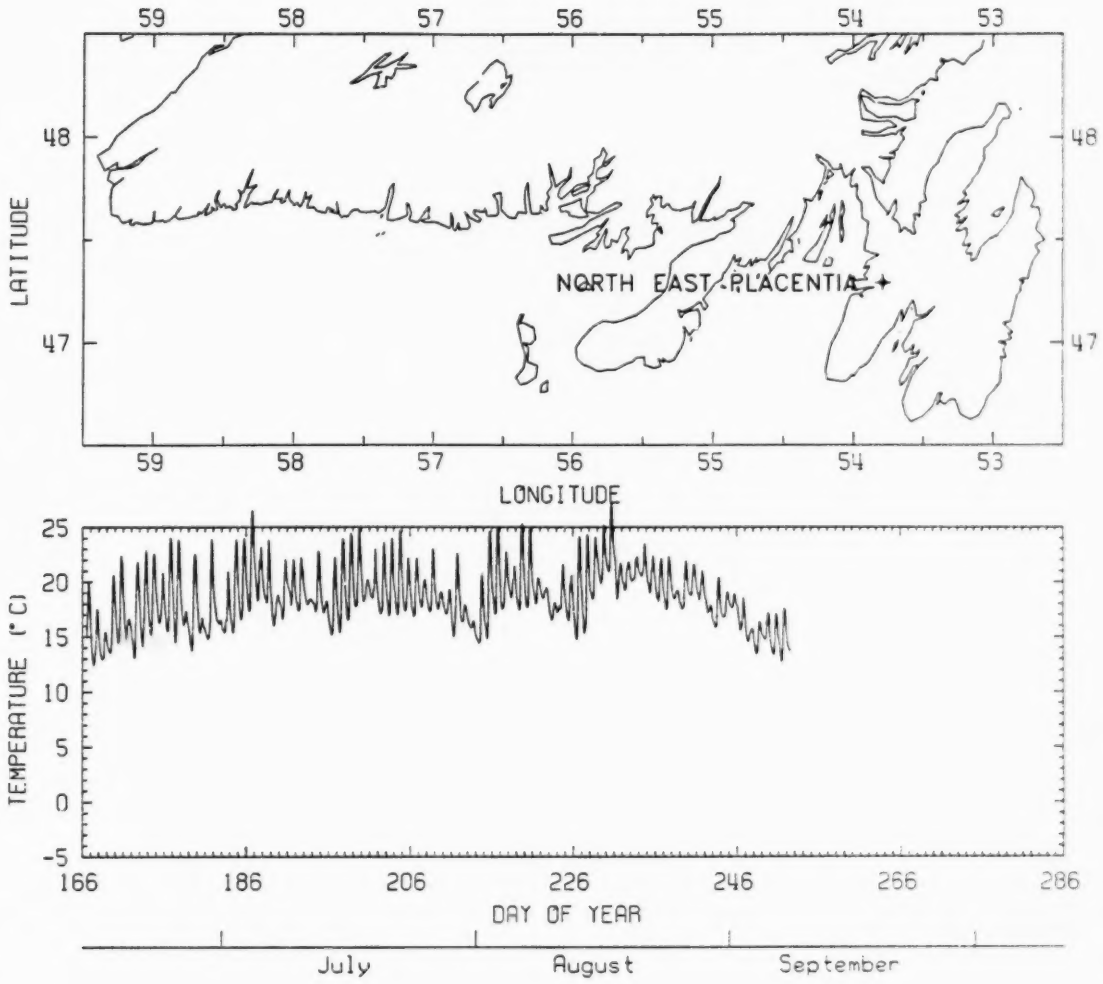
Start: 3-JUL-2001 End: 7-SEP-2001 Inst. S/N:3827

THERMOGRAPH DATA SUMMARY

STATION NAME:	NORTH EAST PLACENTIA
STATION NUMBER:	108
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007936
LATITUDE:	47.29° N
LONGITUDE:	53.79° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	14-JUN-2000 13:00 GMT
RECOVERY DATE/TIME:	08-SEP-2000 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2000	12.40	167	23.95	176	17.04	2.69	290.2	222.2	395
JUL-2000	15.00	211	26.50	186	18.96	2.24	587.6	463.6	744
AUG-2000	14.40	214	27.15	230	19.54	2.27	605.7	481.7	744
SEP-2000	12.65	251	18.85	245	15.64	1.52	124.4	92.4	180
T.PERIOD	12.40	167	27.15	230	18.51	2.61	1608.0	1260.0	2063



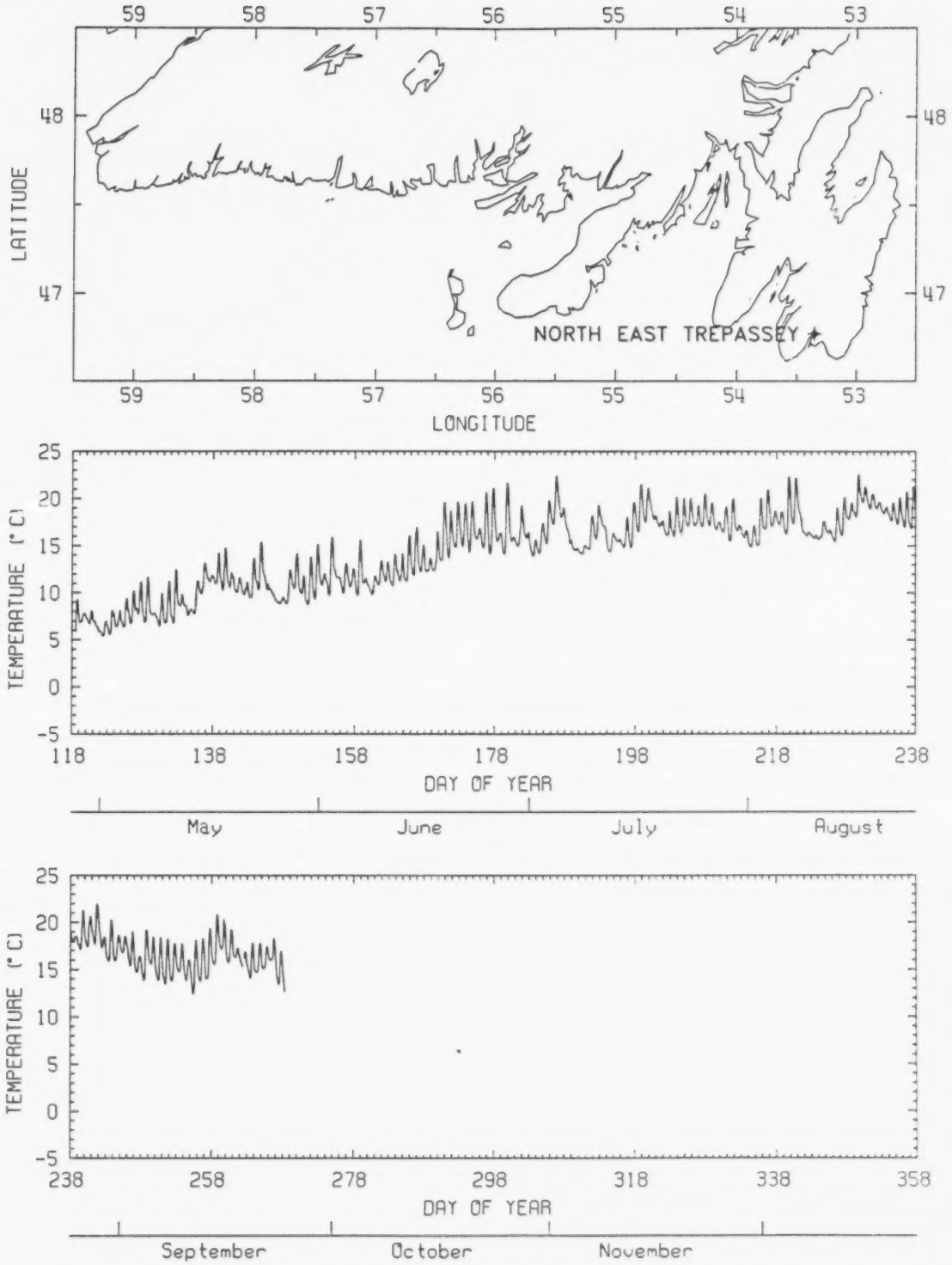
Start: 14-JUN-2000 End: 8-SEP-2000 Inst. S/N: 7936

THERMOGRAPH DATA SUMMARY

STATION NAME:	NORTH EAST TREPASSEY
STATION NUMBER:	130
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	008A09
LATITUDE:	46.77° N
LONGITUDE:	53.35° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	27-APR-2000 11:00 GMT
RECOVERY DATE/TIME:	24-SEP-2000 07:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
APR-2000	5.80	118	9.30	118	7.14	0.75	28.9	12.9	85
MAY-2000	5.40	122	15.35	144	9.65	2.09	299.1	175.1	744
JUN-2000	9.65	154	21.65	179	14.03	2.69	420.9	300.9	720
JUL-2000	13.90	183	22.40	186	16.99	1.68	526.7	402.7	744
AUG-2000	14.90	214	22.60	229	18.07	1.61	560.0	436.0	744
SEP-2000	12.40	255	20.80	258	16.10	1.57	384.7	288.7	560
T.PERIOD	5.40	122	22.60	229	14.73	3.78	2220.4	1616.4	3597



Start:27-APR-2000 End:24-SEP-2000 Inst. S/N:8A09

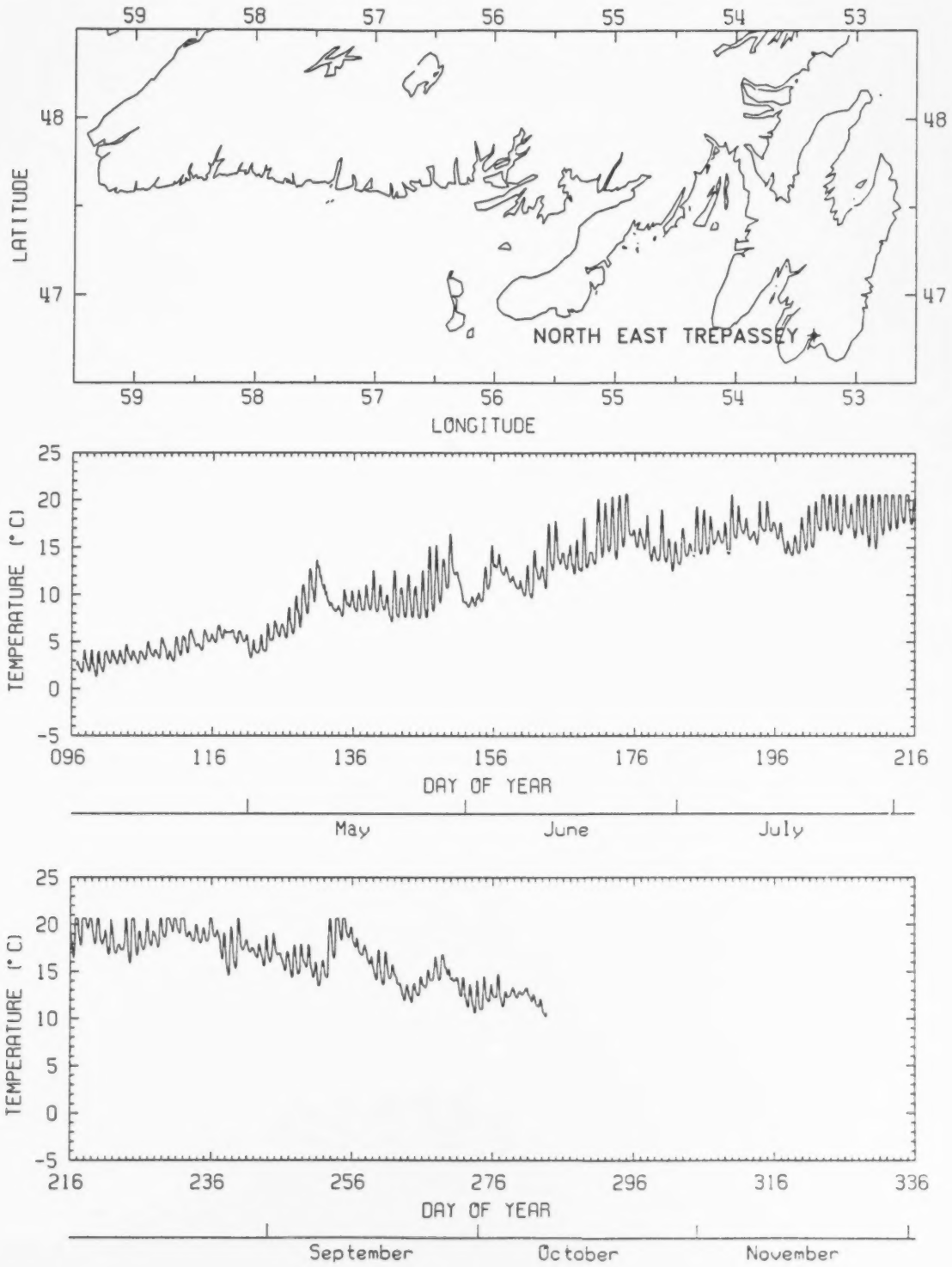
THERMOGRAPH DATA SUMMARY

STATION NAME:	NORTH EAST TREPASSEY
STATION NUMBER:	130
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	003864
LATITUDE:	46.77° N
LONGITUDE:	53.35° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	06-APR-2001 16:00 GMT
RECOVERY DATE/TIME:	10-OCT-2001 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
APR-2001	1.30	99	6.70	116	4.16	1.24	103.0	13.3	584
MAY-2001	3.30	121	16.40	149	8.95	2.51	277.4	153.4	744
JUN-2001	8.70	152	20.60	174	13.74	2.64	412.1	292.1	720
JUL-2001	13.20	182	20.60	189	16.96	1.86	525.7	401.7	744
AUG-2001	14.60	238	20.60	213	18.58	1.36	576.1	452.1	744
SEP-2001	10.60	273	20.60	252	15.43	2.16	462.9	342.9	720
OCT-2001	10.20	283	14.70	276	12.31	0.86	122.5	82.5	231
T.PERIOD	1.30	99	20.60	174	13.23	5.07	2479.6	1737.9	4487

NOTE: Temperatures exceeded Max. range of thermograph.



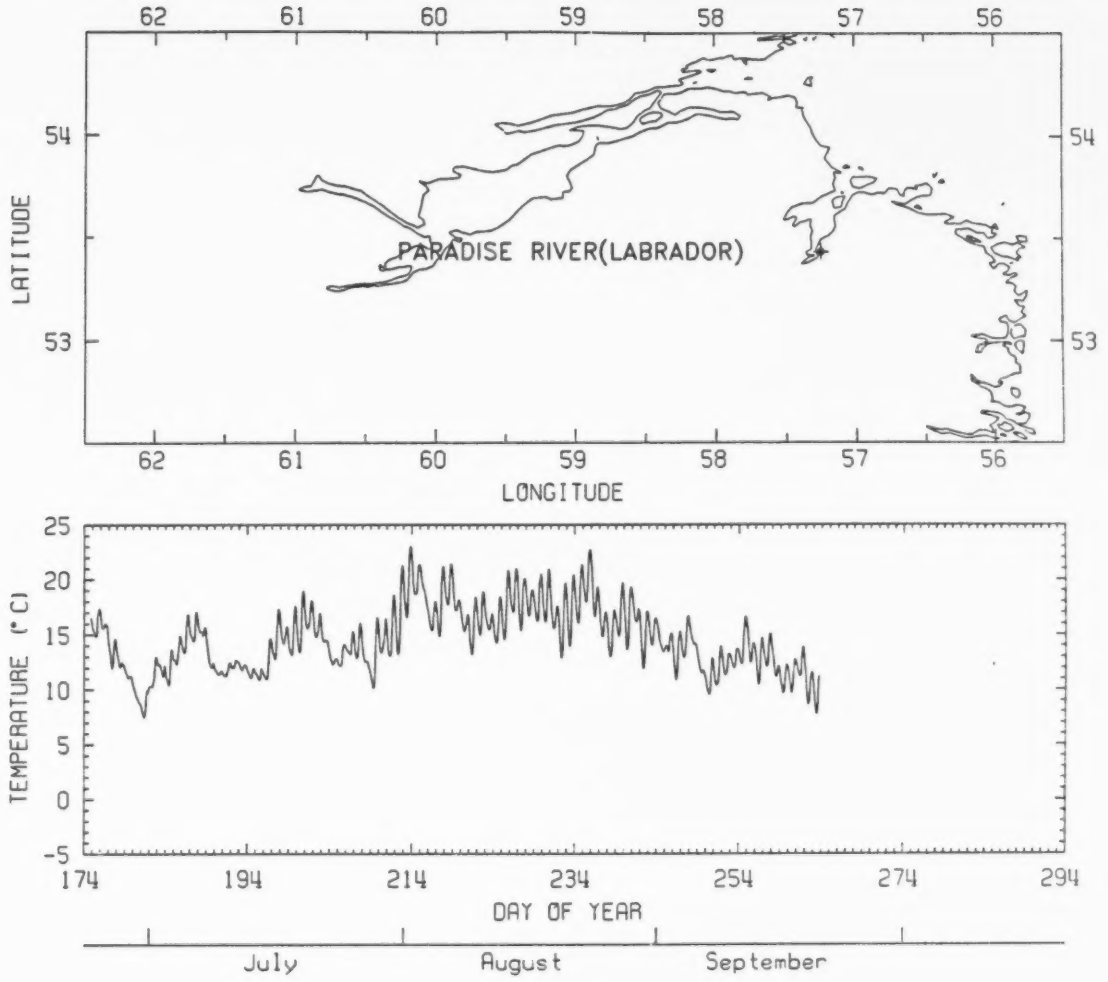
Start: 6-APR-2001 End:10-OCT-2001 Inst. S/N:3864

THERMOGRAPH DATA SUMMARY

STATION NAME:	PARADISE RIVER(LABRADOR)
STATION NUMBER:	229
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	008973
LATITUDE:	53.43° N
LONGITUDE:	57.25° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	23-JUN-2001 20:00 GMT
RECOVERY DATE/TIME:	20-SEP-2001 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2001	7.50	181	17.35	175	12.48	2.76	103.0	71.0	172
JUL-2001	10.05	209	21.25	212	13.59	2.02	421.2	297.2	744
AUG-2001	11.85	242	23.05	213	17.34	2.11	537.4	413.4	744
SEP-2001	7.70	263	16.65	247	12.56	1.78	250.4	170.4	474
T.PERIOD	7.50	181	23.05	213	14.58	2.93	1312.0	952.0	2134



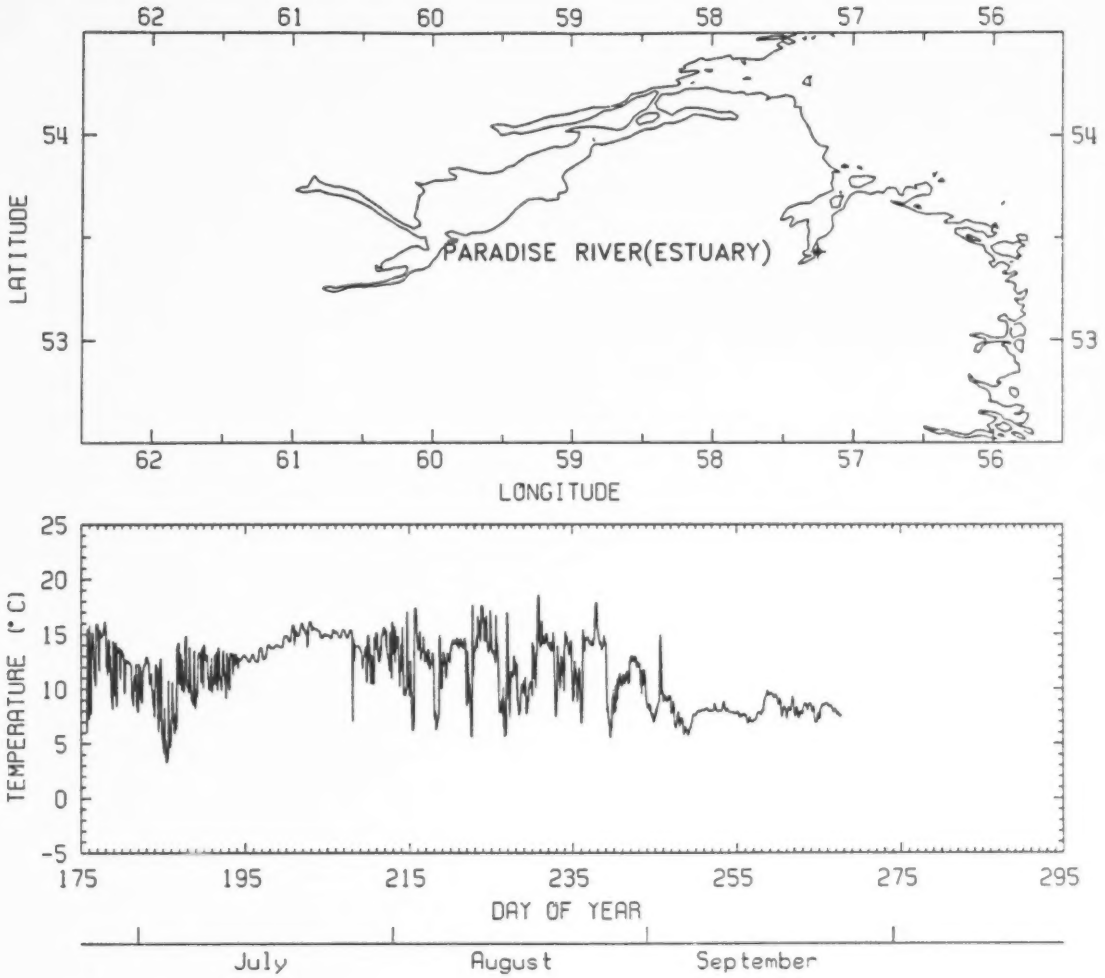
Start: 23-JUN-2001 End: 20-SEP-2001 Inst. S/N:8973

THERMOGRAPH DATA SUMMARY

STATION NAME:	PARADISE RIVER(ESTUARY)
STATION NUMBER:	232
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	008968
LATITUDE:	53.43° N
LONGITUDE:	57.25° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	24-JUN-2001 17:00 GMT
RECOVERY DATE/TIME:	24-SEP-2001 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2001	6.05	175	16.15	177	12.32	2.43	85.4	57.4	151
JUL-2001	3.25	185	16.10	202	12.73	2.52	394.6	270.6	744
AUG-2001	5.50	239	18.50	230	12.17	2.64	377.4	253.4	744
SEP-2001	5.70	249	14.90	245	8.02	0.93	192.4	96.4	569
T.PERIOD	3.25	185	18.50	230	11.30	2.98	1049.8	677.8	2208



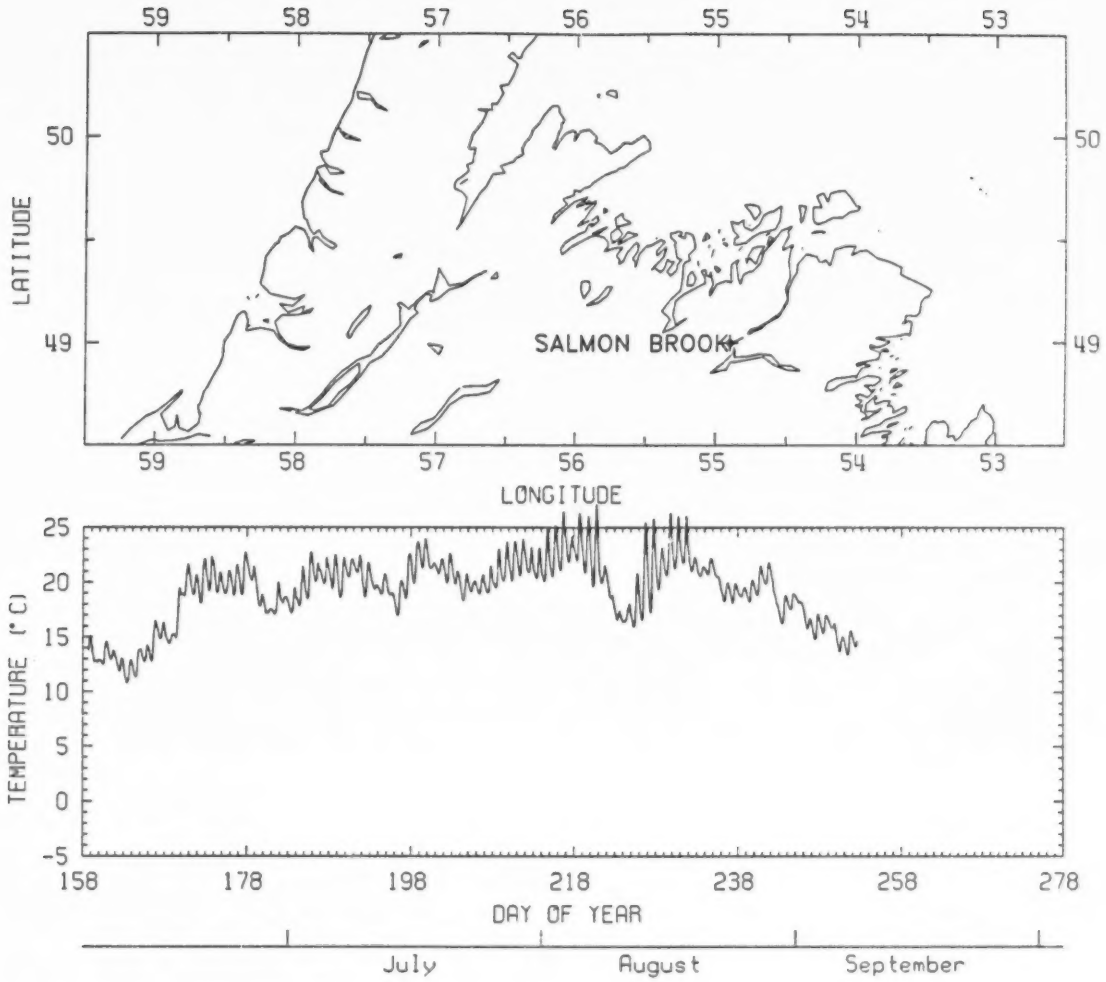
Start: 24-JUN-2001 End: 24-SEP-2001 Inst. S/N:8968

THERMOGRAPH DATA SUMMARY

STATION NAME:	SALMON BROOK
STATION NUMBER:	152
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007933
LATITUDE:	49.00° N
LONGITUDE:	54.90° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	06-JUN-2000 17:00 GMT
RECOVERY DATE/TIME:	08-SEP-2000 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2000	10.80	163	22.75	177	16.87	3.26	420.1	320.1	583
JUL-2000	17.00	196	23.95	199	20.56	1.43	637.4	513.4	744
AUG-2000	15.90	225	27.10	220	20.64	2.44	640.0	516.0	744
SEP-2000	13.35	251	18.85	245	15.88	1.34	126.4	94.4	182
T.PERIOD	10.80	163	27.10	220	19.25	3.02	1823.9	1443.9	2253



Start: 6-JUN-2000 End: 8-SEP-2000 Inst. S/N:7933

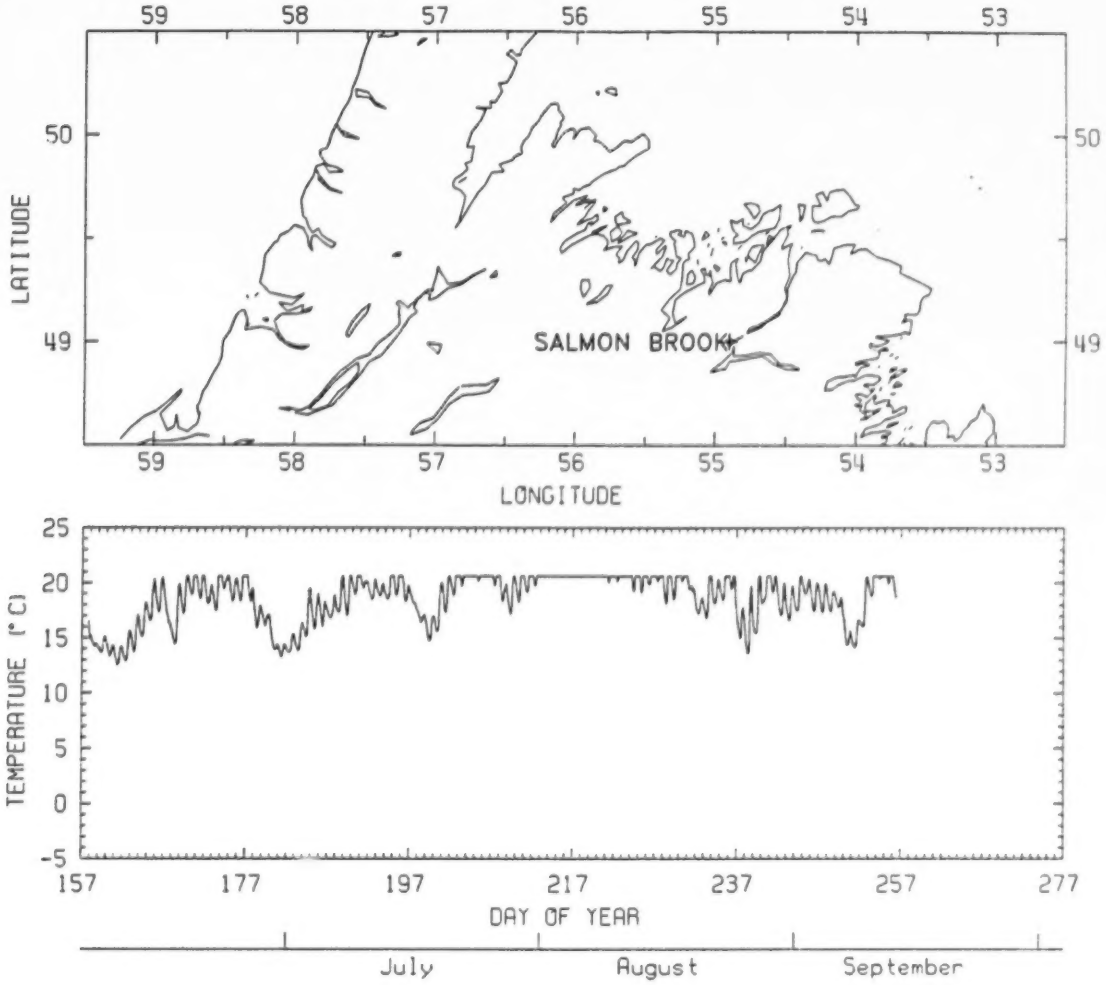
THERMOGRAPH DATA SUMMARY

STATION NAME:	SALMON BROOK
STATION NUMBER:	152
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	003820
LATITUDE:	49.00° N
LONGITUDE:	54.90° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	06-JUN-2001 20:00 GMT
RECOVERY DATE/TIME:	13-SEP-2001 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2001	12.50	161	20.60	169	17.05	2.46	425.1	325.1	580
JUL-2001	13.70	182	20.60	188	18.73	1.87	580.5	456.5	744
AUG-2001	13.60	238	20.60	213	19.62	1.51	608.2	484.2	744
SEP-2001	14.10	251	20.60	244	18.47	1.87	240.7	188.7	300
T.PERIOD	12.50	161	20.60	169	18.56	2.16	1854.5	1454.5	2368

NOTE: Temperatures exceeded Max. range of thermograph.



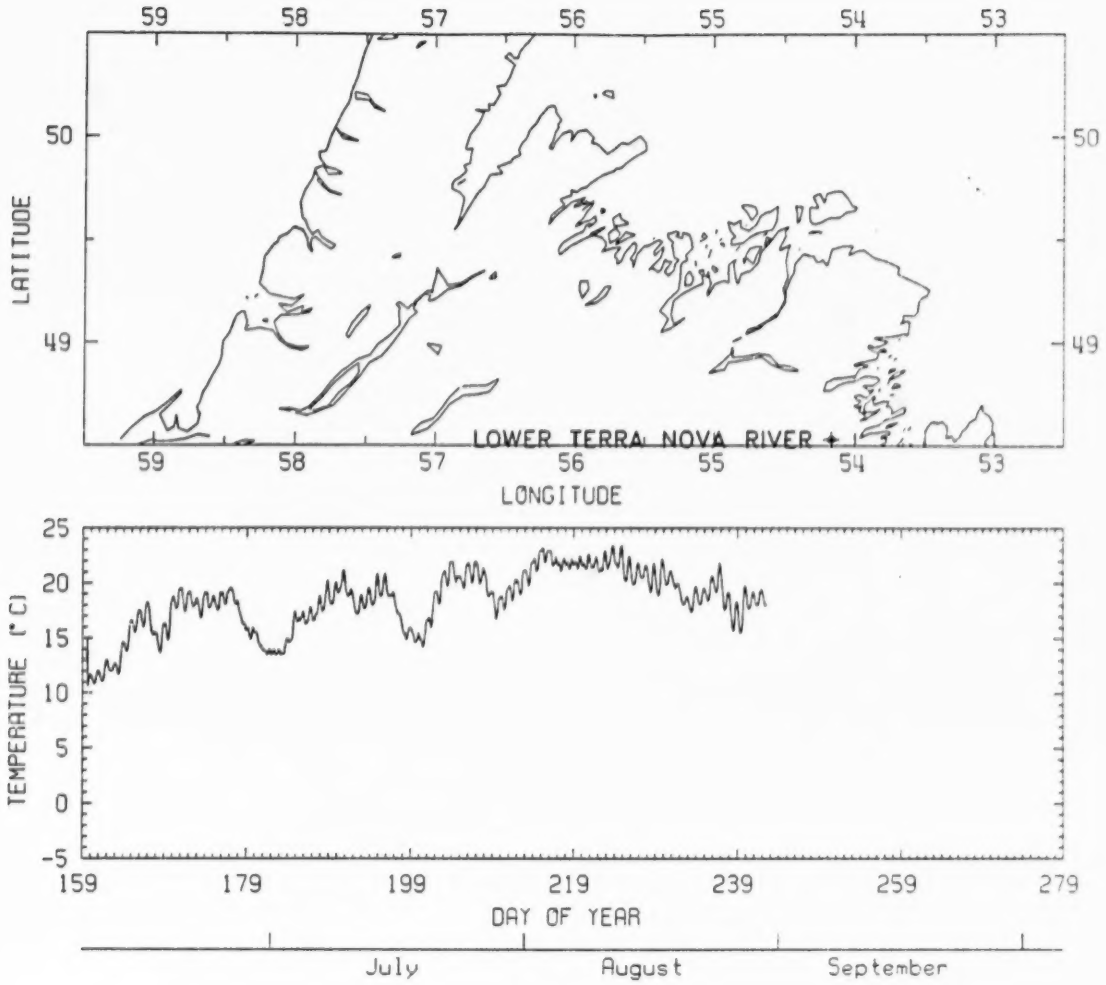
Start: 6-JUN-2001 End: 13-SEP-2001 Inst. S/N:3820

THERMOGRAPH DATA SUMMARY

STATION NAME:	LOWER TERRA NOVA RIVER
STATION NUMBER:	115
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	006250
LATITUDE:	48.53° N
LONGITUDE:	54.17° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	08-JUN-2001 12:00 GMT
RECOVERY DATE/TIME:	30-AUG-2001 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2001	10.60	159	19.50	170	15.91	2.51	364.0	272.0	540
JUL-2001	13.50	182	21.90	203	18.18	2.14	563.7	439.7	744
AUG-2001	15.50	239	23.40	223	20.38	1.73	610.6	490.6	709
T.PERIOD	10.60	159	23.40	223	18.35	2.75	1538.2	1202.2	1993



Start: 8-JUN-2001 End: 30-AUG-2001 Inst. S/N:6250